Index to Volume 47

Author Index

Auronson, S. A. See Albini, Iwamoto, Kleinman, Martin, Aaronson, Kozlowski, and McEwan, 3230

Abbott, B. J. See McLemore, Liu, Blacker, Gregg, Alley, Abbott, Shoemaker, Bohlman, Litterst, Hubbard, Brennan, McMahon, Fine, Eggleston, Mayo, and Boyd, 5132

Abdelaal, A. See Kamiyama, Hashim, Abdelaal,

and Araujo, 2433

Abdel-Malek, Z. A., Swope, V. B., Amornsiripan-itch, N., and Nordlund, J. J. In Vitro Modulation of Proliferation and Melanization of S91 Melanoma Cells by Prostaglandins, 3141

Abe, H. See Ota, Fujikawa-yamamoto, Zong, Yamazaki, Odashima, Kitagawa, Abe, and Arichi,

Abe, O. See Konno, Suzuki, Tadakuma, Kumai, Yasuda, Kubota, Ohta, Nagaike, Hosokawa, Ishibiki, Abe, and Saito, 4471

Abney, N. L. See Perchellet, Abney, Thomas, Guislain, and Perchellet, 477; Perchellet, Abney, Thomas, Perchellet, and Maatta, 6302

Abrams, P. G. See Eger, Covell, Carrasquillo, Abrams, Foon, Reynolds, Schroff, Morgan, Larson, and Weinstein, 3328; Stevenson, Keenan, Woodhouse, Ottow, Miller, Steller, Foon,

Abrams, Beman, Larson, and Sugarbaker, 6100 Acker, H., Carlsson, J., Holtermann, G., Neder-man, T., and Nylén, T. Influence of Glucose and Buffer Capacity in the Culture Medium on Growth and pH in Spheroids of Human Thyroid Carcinoma and Human Glioma Origin, 3504

Ackermann, M. F. See Luster, Germolec, Burleson, Jameson, Ackermann, Lamm, and Hayes, 2259

Adams, D. See Johnson, Barth, Adams, Holman, Price, and Sautins, 1111

Adams, L. See Kerr, Kaye, Cassidy, Bradley, Rankin, Adams, Setanoians, Young, Forrest, Sou-

kop, and Clavel, 6776

Adams, L. M., Ethier, S. P., and Ullrich, R. L. Enhanced in Vitro Proliferation and in Vivo Tumorigenic Potential of Mammary Epithelium from BALB/c Mice Exposed in Vivo to \(\gamma\)-Radiation and/or 7,12-Dimethylbenz[a]anthracene, 4425

Adams, M. See Fish, Shelley, Griffiths, Adams,

Egorin, and Forrest, 3606

Adams, T. M. See Plunkett, Liliemark, Adams, Nowak, Estey, Kantarjian, and Keating, 3005 Adelman, B. See Leftwich, Carlson, Adelman, and Hall, 1319

Aggarwal, B. B. See Lewis, Aggarwal, Eessalu, Sugarman, and Shepard, 5382; Sugarman, Lewis, Eessalu, Aggarwal, and Shepard, 780 Aguelon, A-M. See Yamasaki, Hollstein, Mesnil,

Martel, and Aguelon, 5658
Ahlering, T. E., Dubeau, L., and Jones, P. A. A
New in Vivo Model to Study Invasion and Metastasis of Human Bladder Carcinoma, 6660 Ahmad, S. See Kramer, Greene, Ahmad, and Vis-

tica, 1593

Ahmann, F. R. See Nagle, Ahmann, McDaniel, Paquin, Clark, and Celniker, 281

Ahmann, F. R., Crawford, E. D., Kreis, W., Lev-asseur, Y., and the Aminoglutethimide Study Group Adrenal Steroid Levels in Castrated Men with Prostatic Carcinoma Treated with Aminoglutethimide plus Hydrocortisone, 4736

Ahmed, N. K. See Goren, Ahmed, and Tereba, 1924

Ahmed, S. R. See Manni, Badger, Wright, Ahmed, and Demers, 3066

Aida, T., and Bodell, W. J. Cellular Resistance to Chloroethylnitrosoureas, Nitrogen Mustard, and cis-Diamminedichloroplatinum(II) in Human Glial-derived Cell Lines, 1361; Effect of Caffeine on Cytotoxicity and Sister Chromatid Exchange Induction in Sensitive and Resistant Rat Brain Tumor Cells Treated with 1,3-Bis(2chloroethyl)-1-nitrosourea, 5052

Airoldi, L., Bonfanti, M., Magagnotti, C., and Fanelli, R. Development of an Experimental Model for Studying Bladder Carcinogen Metabolism Using the Isolated Rat Urinary Bladder, 3697 Aisner, J. See Egorin, Sigman, Van Echo, Forrest,

Whitacre, and Aisner, 617

Ajani, J. A. See Grossie, Ota, Ajani, and Nishioka,

Ajani, J. A. See Grossie, Uta, Ajani, and Nishioka, 1836; Singletary, Baker, Spitzer, Tucker, To-masovic, Brock, Ajani, and Kelly, 403Akagi, K., Murai, K., Haddada, H., Levine, A. S., and Patch, C. T. Mitogenic and Antimitogenic Transforming Growth Factors Secreted by Adenovirus 2- and Simian Virus 40-transformed Hamster Cells: Possible Roles in Promoting Tumorigenesis, 4086

Akao, S. See Sobue, Takeuchi, Yoshida, Akao, Fukatsu, Nagasaka, and Nakashima, 160

Akedo, H. See Mukai, Shinkai, Tateishi, Mori, and Akedo, 2167

Akin, D. T. See Parmley, Akin, Barton, Gilbert,

and Kinkade, 4932 Akiyama, S-I. See Lyall, Hwang, Cardarelli, FitzGerald, Akiyama, Gottesman, and Pastan,

Akiyama, S-i, See Shiraishi, Akiyama, Nakagawa, Kobayashi, and Kuwano, 2413

Alama, A., Nicolin, A., Conte, P. F., and Drewinko, B. Evaluation of Growth Fractions with Monoclonal Antibodies to Human α-DNA Polymerase, 1892

Alavi, A. See Takahashi, Herlyn, Atkinson, Powe, Rodeck, Alavi, Bruce, and Koprowski, 3847 Albanes, D. Total Calories, Body Weight, and

Tumor Incidence in Mice, 1987 Albert, M. See Seyfried, Yu, Saito, and Albert,

3538 Alberti, D. See Trump, Tutsch, Willson, Remick, Simon, Alberti, Grem, Koeller, and Tormey,

Alberts, D. S. See Struck, Alberts, Horne, Phillips, Peng, and Roe, 2723

Albini, A., Iwamoto, Y., Kleinman, H. K., Martin. G. R., Aaronson, S. A., Kozlowski, J. M., and McEwan, R. N. A Rapid in Vitro Assay for Quantitating the Invasive Potential of Tumor Cells, 3239

Albrechtsen, R. See Wewer, Taraboletti, Sobel, Albrechtsen, and Liotta, 5691

Aldaz, C. M. See Miller, Viaje, Aldaz, Conti, and Slaga, 1935

Aldrich, M. B. See Chan, Aldrich, and Yung, 3798 Alessandri, G., Filippeschi, S., Sinibaldi, P., Mor-net, F., Passera, P., Spreafico, F., Cappa, P. M., and Gullino, P. M. Influence of Gangliosides on Primary and Metastatic Neoplastic Growth in Human and Murine Cells, 4243 Alexander, R. B., Nelson, W. G., and Coffey, D. S.

Synergistic Enhancement by Tumor Necrosis Factor of in Vitro Cytotoxicity from Chemotherapeutic Drugs Targeted at DNA Topoisomerase II, 2403

Alger, E. A. See Sharkey, Pykett, Siegel, Alger,
 Primus, and Goldenberg, 5672
 Alhadeff, B. See Dracopoli, Alhadeff, Houghton,

and Old, 3995 Ali-Osman, F., Giblin, J., Dougherty, D., and Ro-senblum, M. L. Application of in Vivo and in

Vitro Pharmacokinetics for Physiologically Relevant Drug Exposure in a Human Tumor Clonogenic Cell Assay, 3718

Allaire, S. See Sircar, Palkonyay, Rodrigues, Al-laire, Horvath, Thirion, and Weber, 1339

Allen, C. A., and Hogg, N. Association of Colorec-tal Tumor Epithelium Expressing HLA-D/DR with CD8-positive T-Cells and Mononuclear

Phagocytes, 2919
Allen, J. W. See Arce, Allen, Doerr, Elmore,
Hatch, Moore, Sharief, Grunberger, and Nesnow, 3388

Alley, M. C. See Gorelik, Ovejera, Shoemaker, Jarvis, Alley, Duff, Mayo, Herberman, and Boyd, 5739; McLemore, Liu, Blacker, Gregg, Alley, Abbott, Shoemaker, Bohlman, Litterst, Hubbard, Brennan, McMahon, Fine, Eggleston, Mayo, and Boyd, 5132

Almirall, L. See Bastida, Almirall, Jamieson, and Ordinas, 1767

Alon, Y., Hammerling, G. J., Segal, S., and Bar-Eli, M. Association in the Expression of Kirstenras Oncogene and the Major Histocompatibility Complex Class I Antigens in Fibrosarcoma Tu-mor Cell Variants Exhibiting Different Metastatic Capabilities, 2553 Alt, F. W. See Kanda, Tsuchida, Hata, Kohl, Alt,

Latt, and Utakoji, 3291

Altavilla, G. See Corallini, Pagnani, Viadana, Camellin, Caputo, Reschiglian, Rossi, Altavilla, Selvatici, and Barbanti-Brodano, 6671

Alterman, A. L. See Rappaport, Alterman, Brav-

erman, and Stackpole, 5391 Amagai, T. See Matsumura, Sugimoto, Sawada, Amagai, Negoro, and Kemshead, 2924

Amaudruz, F. See Tyrrell and Amaudruz, 3725 Amin, S. See Hecht, Amin, Huie, Melikian, and Harvey, 5310

Amin, S., Huie, K., Balanikas, G., Hecht, S. S., Pataki, J., and Harvey, R. G. High Stereoselec-tivity in Mouse Skin Metabolic Activation of Methylchrysenes to Tumorigenic Dihydrodiols,

Amin, W., Karlan, B. Y., and Littlefield, B. A. Glucocorticoid Sensitivity of OVCA 433 Human Ovarian Carcinoma Cells: Inhibition of Plasminogen Activators, Cell Growth, and Morphological Alterations, 6040

Aminoglutethimide Study Group See Ahmann, Crawford, Kreis, Levasseur, and the Aminoglutethimide Study Group, 4736

Amornsiripanitch, N. See Abdel-Malek, Swope, Amornsiripanitch, and Nordlund, 3141

Amoss, M. S., Jr. See Tissot, Beattie, and Amoss,

Amy, C. M., and Bartholomew, J. C. Regulation of N-myc Transcript Stability in Human Neuroblastoma and Retinoblastoma Cells, 6310

Amylon, M. D. See Smith, Morgan, Galili, Amylon, Link, Hecht, Sklar, and Glader, 1652 Anastasi, A. M. See Pulciani, Sakano, Ohnishi, Anastasi, Pecorelli, Fiorucci, Oppi, Rossi, and

Bonavida, 523 Anders, M. W. See Veltman and Anders, 5087 Andersen, P. K. See Østerlind, Hansen, Domber-

nowsky, Hansen, and Andersen, 2733 Anderson, D. E. See Jones, Ota, Jackson, Jackson, Kemp, Anderson, McCamant, and Bauman,

Anderson, G. R. See Manly, Petrelli, Anderson, Emrich, Herrera, and Mittelman, 6156

Anderson, K. See Jetten, Anderson, Deas, Kagechika, Lotan, Rearick, and Shudo, 3523

Anderson, L. See Augenlicht, Wahrman, Halsey, Anderson, Taylor, and Lipkin, 6016

Anderson, L. M., Ward, J. M., Park, S. S., Jones, A. B., Junker, J. L., Gelboin, H. V., and Rice, J. M. Immunohistochemical Determination of Inducibility Phenotype with a Monoclonal Anti-body to a Methylcholanthrene-inducible Isozyme of Cytochrome P-450, 6079

erson, M. W. See Belinsky, Walker, Maronpot, Swenberg, and Anderson, 6057; Belinsky, White, Devereux, Swenberg, and Anderson, 1143; Stowers, Glover, Reynolds, Boone, Maronpot, and Anderson, 3212

Anderson, W. B. See Plet, Evain-Brion, Gerbaud, and Anderson, 5831

Anderson-Berg, W. T., Squire, R. A., and Strand, M. Specific Radioimmunotherapy Using 90Ylabeled Monoclonal Antibody in Erythroleukemic Mice, 1905

Andersson, B. S. See Beran and Andersson, 1897 Andersson, B. S., Beran, M., Bakic, M., Silberman,

L. E., Newman, R. A., and Zwelling, L. A. In Vitro Toxicity and DNA Cleaving Capacity of Benzisoquinolinedione (Nafidimide; 308847) in Human Leukemia, 1040

Andersson, L., Sulkowski, E., and Porath, J. Facile Resolution of α-Fetoproteins and Serum Albumins by Immobilized Metal Affinity Chromatography, 3624

Anderström, C. See Johansson, Anderström, von

Schultz, and Larsson, 559

Ando, K. See Magae, Hosokawa, Matsuda, Hotta, Hayasaki, Nagai, Ando, Yamasaki, and Tamura,

Andrews, A. W. See Schiffman, Haley, Felton, Andrews, Kaslow, Lancaster, Kurman, Brinton,

Lannom, and Hoffmann, 3886

Andrews, D. F., III, Singer, J. W., and Collins, S.

J. Effect of Recombinant α-Interferon on the Expression of the bcr-abl Fusion Gene in Chronic Myelogenous Human Leukemia Cell Lines, 6629

Andrews, J. C. See Wollner, Knutsen, Ullrich. Chrisp, Juni, Andrews, Tuscan, Stetson, and

Ensminger, 3285

Andrews, P. A. See Zimm, Cleary, Lucas, Weiss, Markman, Andrews, Schiefer, Kim, Horton, and

Howell, 1712

Andrews, P. W., Trinchieri, G., Perussia, B., and Baglioni, C. Induction of Class I Major Histocompatibility Complex Antigens in Human Teratocarcinoma Cells by Interferon without Induction of Differentiation, Growth Inhibition, or Resistance to Viral Infection, 740

Andries, M. See Lundgren, Andries, Thompson,

and Lucier, 3662

Anhalt, C. D. See Jesson, Johnston, Anhalt, and Begleiter, 5935

Anjo, T. See Keefer, Anjo, Wade, Wang, and Yang, 447; Wade, Yang, Metral, Roman, Hrabie, Riggs, Anjo, Keefer, and Mico, 3373

Annoni, C. See Ponz de Leon, Roncucci, di Donato, Sacchetti, Pezcoller, Annoni, Bertani, Rebecchi, Balli, Galli, and Carulli, 305

Anthony, L. B. See Brenner, Anthony, Halter, Harris, Collins, and Hande, 3259

Antich, P. P. See Corbett, Nunnally, Giovanella,

and Antich, 5065

Antonsson, B. E., Avramis, V. I., Nyce, J., and Holcenberg, J. S. Effect of 5-Azacytidine and Congeners on DNA Methylation and Expression of Deoxycytidine Kinase in the Human Lymphoid Cell Lines CCRF/CEM/0 and CCRF/CEM/dCk*, 3672 Aoki, H. See Izumi, Hirai, Hayashi, Konishi, Okuhara, Kohsaka, Aoki, and Yamamura, 1785

Aoki, K. See Kuroiwa, Aoki, Taniguchi, Hasuda, and Baba, 3618

Aoki, N. See Nara, Yamashita, Murohashi, Tanikawa, Imai, and Aoki, 2376

Aono, T. See Terakawa, Hayashida, Shimizu, Ikegami, Wakimoto, Aono, Tanizawa, Matsumoto, and Nishida, 1918

Apodaca, G. See Rutka, Giblin, Apodaca, De-Armond, Stern, and Rosenblum, 3515

Appelgren, L-E. See Gillner, Brittebo, Brandt, Söderkvist, Appelgren, and Gustafsson, 4150

Aprille, J. R. See Ara, Aprille, Malis, Kane, Cincotta, Foley, Bonventre, and Oseroff, 6580; Modica-Napolitano and Aprille, 4361

Ara, G., Aprille, J. R., Malis, C. D., Kane, S. B., Cincotta, L., Foley, J., Bouventre, J. V., and Oseroff, A. R. Mechanisms of Mitochondrial Photosensitization by the Cationic Dye, N,N'-Bis-(2-ethyl-1,3-dioxylene)kryptocyanine: Preferential Inactivation of Complex I in the Electron Transport Chain, 6580

Arai, S. See Fujii, Kimura, Arai, and Sendo, 6000; Fukase, Inoue, Arai, and Sendo, 4842; Kimura, Inoue, Yamashita, Midorikawa, Arai, and Inoue,

Sendo, 6204

Arakaki, Y. See Oda, Watanabe, Sumii, Nakamura, Arakaki, and Shimotohno, 2077

Arakawa, F. See Matsunaga, Kuroki, Higuchi, Arakawa, Takakura, Okamoto, and Matsuoka, 56 Araki, K. See Nishimura, Yokoyama, Araki, Ueda, Kudo, and Watanabe, 999

Araujo, L. See Kamiyama, Hashim, Abdelaal, and

Araujo, 2433

Arcamone, F. See Barbieri, Giuliani, Bordoni, Casazza, Geroni, Bellini, Suarato, Gioia, Penco, and Arcamone, 4001

Arce, G. T., Allen, J. W., Doerr, C. L., Elmore, E., Hatch, G. G., Moore, M. M., Sharief, Y., Grunberger, D., and Nesnow, S. Relationships between Benzo(a)pyrene-DNA Adduct Levels and Genotoxic Effects in Mammalian Cells, 3388

Arends, J. W. See Schutte, Reynders, Wiggers, Arends, Volovics, Bosman, and Blijham, 5494 Arends, J. W., Schutte, B., Wiggers, T., Verstijnen, C. P. H. J., Blijham, G. H., and Bosman, F. T.

Comparison of Phenotypic and Genotypic Features in Human Primary Large Bowel Carcinomas and Lymph Node Metastases, 4342
Argilés, J. M. See Rivera, López-Soriano, Azcón-

Bieto, and Argilés, 5644

Arichi, S. See Ota, Fujikawa-Yamamoto, Zong, Yamazaki, Odashima, Kitagawa, Abe, and Arichi. 3863

Arimoto, S. See Hayatsu, Kasai, Yokoyama, Miyazawa, Yamaizumi, Sato, Nishimura, Arimoto, Hayatsu, and Ohara, 791

Arimura, H. See Koyama, Mukai, Fukao, Arimura,

Iwasaki, and Osuga, 4667

Arita, N. See Yamada, Ushio, Hayakawa, Arita, Huang, Nagatani, Yamada, and Mogami, 2123 Ariyoshi, Y. See Kato, Asano, Kamiya, Haimoto, Hosoda, Nagasaka, Ariyoshi, and Ishiguro,

Arlinghaus, R. B. See Maxwell, Kurzrock, Parsons, Talpaz, Gallick, Kloetzer, Arlinghaus, Kouttab,

Keating, and Gutterman, 1731 Arndt, C. A. S., Colvin, O. M., Balis, F. M., Lester, C. M., Johnson, G., and Poplack, D. G. Intrathe-cal Administration of 4-Hydroperoxycyclophosphamide in Rhesus Monkeys, 5932 Arndt, R. See Thiesen, Juhl, and Arndt, 419

Arnold, M. See Elliott, Carlow, Ivimey, Arnold, Hampton, and Bosman, 4915

Arnstein, P. See Rubin, Chu, and Arnstein, 486 Arrendale, R. F. See Ruenitz, Arrendale, George,

Thompson, Mokler, and Nanavati, 4015 Arteaga, C. L., Forseth, B. J., Clark, G. M., a Von Hoff, D. D. A Radiometric Method for Evaluation of Chemotherapy Sensitivity: Results of Screening a Panel of Human Breast Cancer Cell Lines, 6248

Asamoto, M. See Masui, Asamoto, Hirose, Fukushima, and Ito, 5171

Asano, T. See Kato, Asano, Kamiya, Haimoto, Hosoda, Nagasaka, Ariyoshi, and Ishiguro,

Asano, Y., Shibuya, T., Okamura, S., Yamaga, S., Otsuka, T., and Niho, V. Effect of Human Re-combinant Granulocyte/Macrophage Colony-stimulating Factor and Granulocyte Colonystimulating Factor on Clonogenic Leukemic Blast Cells, 5647

Ascensao, J. L. See Liu, Ascensao, Lutton, and Lincoln, 6576

Asch, B. B. See Guzman, Osborn, Bartley, Imagawa, Asch, and Nandi, 275

Ashbaugh, S. See U. Kelley, Ashbaugh, Tatsu-kawa, and Werner, 5678

Asmeron, Y. See Carr, Rahbar, Doroshow, Blayney, Goldberg, Leong, and Asmeron, 4199 Asokan, P. See Das, Khan, Asokan, Bickers, and

Mukhtar, 767 Astengo, M. See De Flora, Camoirano, Romano, Astengo, Cesarone, and Millman, 4052

Atherton, S. E. See Speizer, Atherton, and Sando, 4830

Atkinson, B. See Rodeck, Herlyn, Herlyn, Mol-thoff, Atkinson, Varello, Steplewski, and Ko-prowski, 3692; Takahashi, Herlyn, Atkinson, Powe, Rodeck, Alavi, Bruce, and Koprowski,

Atsumi, R., Endo, K., Kakutani, T., Takakura, Y., Hashida, M., and Sezaki, H. Disposition Characteristics of Mitomycin C-Dextran Conjugate in Normal and Tumor Bearing Muscles of Rabbits, 5546

Atzpodien, J. See Wisniewski, Strife, Atzpodien, and Clarkson, 4788

Auclair, C., Pierre, A., Voisin, E., Pepin, O., Cros, S., Colas, C., Saucier, J-M., Verschuere, B., Gros, P., and Paoletti, C. Physicochemical and Pharmacological Properties of the Antitumor Ellipticine Derivative 2-(Diethylamino-2 ethyl)-9-hydroxy Ellipticinium-Chloride, HCl, 6254

Auerbach, R., Lu, W. C., Pardon, E., Gumkowski, F., Kaminska, G., and Kaminski, M. Specificity of Adhesion between Murine Tumor Cells and Capillary Endothelium: An in Vitro Correlate of Preferential Metastasis in Vivo, 1492

Auersperg, N. See Wiebe, Myers, and Auersperg, 1325

Auersperg, N., Pawson, T., Worth, A., and Weinmaster, G. Modifications of Tumor Histology by Point Mutations in the v-fps Oncogene: Possible Role of Extracellular Matrix, 6341

Aufderheide, M. See Emura, Mohr, Riebe, Aufder-

heide, and Dungworth, 1155

Augenlicht, L. H., Augeron, C., Yander, G., and Laboisse, C. Overexpression of ras in Mucussecreting Human Colon Carcinoma Cells of Low Tumorigenicity, 3763

Augenlicht, L. H., Wahrman, M. Z., Halsey, H., Anderson, L., Taylor, J., and Lipkin, M. Expression of Cloned Sequences in Biopsies of Human Colonic Tissue and in Colonic Carcinoma Cells Induced to Differentiate in Vitro, 6016

Augeron, C. See Augenlicht, Augeron, Yander, and Laboisse, 3763

Austgulen, R. See Nissen-Meyer, Austgulen, and Espevik, 2251

Austin, H. See Yu, Henderson, Austin, Delzell, Cole, Grufferman, Levine, Morrison, and Stol-

Austin, H. A. See Oldfield, Clark, Dedrick, Egorin, Austin, DeVroom, Joyce, and Doppman, 1962 Autrup, H., Seremet, T., Wakhisi, J., and Wasunna,

A. Aflatoxin Exposure Measured by Urinary Excretion of Aflatoxin B1-Guanine Adduct and Hepatitis B Virus Infection in Areas with Different Liver Cancer Incidence in Kenya, 3430

Avitts, T. A. See Liehr, Hall, Avitts, Randerath, and Randerath, 2156

Avramis, V. I. See Antonsson, Avramis, Nyce, and Holcenberg, 3672

Avramis, V. I., Biener, R., Krailo, M., Finklestein, J., Ettinger, L., Willoughby, M., Siegel, S. E., and Holcenberg, J. S. Biochemical Pharmacology of High Dose 1-β-D-Arabinofuranosylcytosine in Childhood Acute Leukemia, 6786

Azcón-Bieto, J. See Rivera, López-Soriano, Azcón-Bieto, and Argilés, 5644

Azuma, M. See Sato, Azuma, Hayashi, Yoshida, Yanagawa, and Yura, 4453 Azumi, N. See Hammond, Gabriel, Paladugu,

Azumi, Hill, and Benfield, 5202

B

Baba, H. See Kunimoto, Nitta, Tanaka, Uehara, Baba, Takeuchi, Yokokura, Sawada, Miyasaka, and Mutai, 5944

Baba, M. See Iishi, Tatsuta, Baba, Okuda, and Taniguchi, 4890

Baba, M., Klein-Szanto, A. J. P., Trono, D., Obara, T., Yoakum, G. H., Masui, T., and Harris, C. C. Preneoplastic and Neoplastic Growth of Xenotransplanted Lung-derived Human Cell Lines Using Deepithelialized Rat Tracheas, 573

Baba, T. See Kuroiwa, Aoki, Taniguchi, Hasuda, and Baba, 3618

Babu, V. R., Lutz, M. D., Miles, B. J., Farah, R. N., Weiss, L., and Van Dyke, D. L. Tumor Behavior in Transitional Cell Carcinoma of the Bladder in Relation to Chromosomal Markers and Histopathology, 6800 Bacha, D. M. See Tan, Hancock, Steinherz, Bacha,

Steinherz, Luks, Winick, Meyers, Mondora, Dantis, Niedzwiecki, and Stevens, 2990 Bachur, N. R. See Dodion, Bernstein, Fox, and

Bachur, 1036 Badaracco, G. See Ziai, Imberti, Nicotra, Badar-

acco, Segatto, Natali, and Ferrone, 2474 Baddeley, H. See Irving, Brooks, Brereton, Galloway, Field, Fell, Harris, Baddeley, and Doddrell, 3901

der, C. A. See Monet, Thomas, Dautigny, Brami, and Bader, 5116

Bader, J. See Swain, Sorace, Bagley, Danforth, Bader, Wesley, Steinberg, and Lippman, 3889 Badger, B. See Manni, Badger, Wright, Ahmed, and Demers, 3066

Bagg, B. J. See McCormick, Bagg, and Hultin,

Bagheri, K. See Melikian, Bagheri, and Hecht, 5354

Ractioni 740

Bagley, C. S. See Swain, Sorace, Bagley. Danforth, Bader, Wesley, Steinberg, and Lippman, 3889 Baglioni, C. See Andrews, Trinchieri, Perussia, and

i, A. See Marchetti, Querzoli, Moncharmont, Parikh, Bagni, Marzola, Fabris, and Nenci,

Baig, G. See Stevens, Hickman, Langdon, Chubb, Vickers, Stone, Baig, Goddard, Gibson, Slack, Newton, Lunt, Fizames, and Lavelle, 5846

Baildam, A. D. See Howell, Harland, Barnes, Baildam, Wilkinson, Hayward, Swindell, and Sellwood, 300

Bailey, G. See Davie, Delcuve, Nickel, Moirier, and Bailey, 5407
Bailey, S. C. See Bhargava, Head, Bailey, and

Greengard, 6262

Bain, D. L. See Lane, Vichi, Bain, and Tritton,

Haird, W. M. See Moore, Pruess-Schwartz, Mauthe, Gould, and Baird, 4402; Morse, Baird, and Carlson, 4571; Pruess-Schwartz, Baird, Yagi, Jerina, Pigott, and Dipple, 4032; Smolarek, Baird, Fisher, and DiGiovanni, 3701

Baisch, H. See Knöfel, Otto, Baisch, and Klöppel, 221

Bajzer, Ž., and Vuk-Pavlović, S. Quantitation of Autocrine Regulation of Tumor Growth: A General Phenomenological Model, 5330

Baker, F. L. See Lee, Pathak, Hopwood, Toma-sovic, Mullins, Baker, Spitzer, and Neidhart, 6349; Singletary, Baker, Spitzer, Tucker, To-masovic, Brock, Ajani, and Kelly, 403

Baker, H. See Marcus, Dutcher, Paietta, Ciobanu, Strauman, Wiernik, Hutner, Frank, and Baker, 4208

Baker, L. H. See Pazdur, Redman, Corbett, Phillips, and Baker, 4213

Baker, M. See Lin, Cashmore, Baker, Dreyer, Ernstoff, Marsh, Bertino, Whitfield, Delap, and Grillo-Lopez, 609

Baker, M. A. See Hindenburg, Baker, Gleyzer, Stewart, Case, and Taub, 1421

Baker, M. A., Kanani, A., Brockhausen, I., Schachter, H., Hindenburg, A., and Taub, R. N. Presence of Cytidine 5'-Monophosphate-N-acetylneuraminic Acid:Galβ1-3GalNAc-R α(2-3)-Sialytransferase in Normal Human Leukocytes and Increased Activity of This Enzyme in Granulocytes from Chronic Myelogenous Leukemia Patients, 2763

Bakhshi, A. See Raffeld, Wright, Lipford, Cossman, Longo, Bakhshi, and Korsmeyer, 2537 Bakic, M. See Andersson, Beran, Bakic, Silber-

man, Newman, and Zwelling, 1040 Bakic, M., Chan, D., Freireich, E. J, Marton, L. J., and Zwelling, L. A. Effect of Polyamine Deple tion by a-Difluoromethylornithine or (2R,5R)-6-Heptyne-2,5-diamine on Drug-induced Topoisomerase II-mediated DNA Cleavage and Cytotoxicity in Human and Murine Leukemia Cells, 6437

Balanikas, G. See Amin, Huie, Balanikas, Hecht, Pataki, and Harvey, 3613

Baldwin, R. W. See Byers, Pimm, Pawluczyk, Lee, Scannon, and Baldwin, 5277; Byers, Pimm, Scannon, Pawluczyk, and Baldwin, 5042 Balint, J. P. See Singhal, Singhal, Nudelman, Hak-

omori, Balint, Grant, and Snyder, 5566 Balis, F. M. See Arndt, Colvin, Balis, Lester, John-

son, and Poplack, 5932

Son, and Popuack, 3932.

Balis, F. M., Patel, R., Luks, E., Doherty, K. M.,
Holcenberg, J. S., Tan, C., Reaman, G. H., Be-lasco, J., Ettinger, L. J., Zimm, S., and Poplack, D. G. Pediatric Phase I Trial and Pharmacokinetic Study of Trimetrexate, 4973

Balkwill, F. R. See Ward, Wallace, Shepherd, and Balkwill, 2662

Balkwill, F. R., Ward, B. G., Moodie, E., and Fiers, W. Therapeutic Potential of Tumor Necrosis Factor-α and γ-Interferon in Experimental Human Ovarian Cancer, 4755

Ball, E. D., Keefe, K. A., and Colby, E. Expression of Antigens Associated with Small Cell Carcinoma of the Lung on Hematopoietic Progenitor

Balli, F. See Ponz de Leon, Roncucci, di Donato, Sacchetti, Pezcoller, Annoni, Bertani, Rebecchi, Balli, Galli, and Carulli, 305

Ballin, M. See Garbisa, Pozzatti, Muschel, Saffiotti, Ballin, Goldfarb, Khoury, and Liotta, 1523 Bambara, R. A. See Klinge, Bambara, Zain, and

Hilf. 2852 Bamberg, M. P. See Fingert, Chen, Mizrahi, Gajewski, Bamberg, and Kradin, 3824

Banda, M. See Wallner, Banda, and Li, 1308 Banerjee, A. See Benedict, Srivatsan, Mark, Banerjee, Sparkes, and Murphree, 4189

Bankert, R. B. See Reddy, Piccione, Takita, and Bankert, 2456

Bansal, S. K. See Bernacki, Bansal, and Gurtoo.

Banzet, P. See Khayat, Lokiec, Bizzari, Weil, Meeus, Sellami, Rouesse, Banzet, and Jacquillat. 6782

Baran, J. S. See Liehr, Purdy, Baran, Nutting, Colton, Randerath, and Randerath, 2583

Barbanti-Brodano, G. See Corallini, Pagnani, Via dana, Camellin, Caputo, Reschiglian, Rossi, Al-tavilla, Selvatici, and Barbanti-Brodano, 6671 Barbet, J. See Rahmani, Bruno, Iliadis, Favre,

Just, Barbet, and Cano, 5796

Barbieri, B., Giuliani, F. C., Bordoni, T., Casazza, A. M., Geroni, C., Bellini, O., Suarato, A., Gioia, B., Penco, S., and Arcamone, F. Chemical and Biological Characterization of 4'-Iodo-4'-deoxydoxorubicin, 4001

Barcos, M. P. See Matsuzaki, Haruta, Fukukawa, Barcos, and Seon, 2160 Barcus, M. C. S. See Reiners, Pence, Barcus, and

Cantu. 1775

Bardon, S., Vignon, F., Montcourrier, P., and Ro-chefort, H. Steroid Receptor-mediated Cytotoxicity of an Antiestrogen and an Antiprogestin in Breast Cancer Cells, 1441

Bar-Eli, M. See Alon, Hammerling, Segal, and Bar-Eli. 2553

Barkla, D. H. See Eisman, Barkla, and Tutton, 21 Barna, B. P., James, K., and Deodhar, S. D. Activation of Human Monocyte Tumoricidal Activ ity by C-reactive Protein, 3959

Barnekow, A., Paul, E., and Schartl, M. Expression of the c-src Protooncogene in Human Skin Tu-

Barnes, D. See Seidenfeld, Barnes, Block, and Erickson, 4538

Barnes, D. M. See Howell, Harland, Barnes, Baildam, Wilkinson, Hayward, Swindell, and Sellwood, 300; Howell, Harland, Barnes, Hayward, Redford, Swindell, and Sellwood, 296
Barnes, E. L. See Heo, Whiteside, Johnson, Chen,

Barnes, and Herberman, 6353

Baron, J. See Huitfeldt, Spangler, Baron, and Poirier, 2098

Barr, R. See Jarrell, Lai, Barr, McMahon, Belbeck, and O'Connell, 2340; Jarrell, YoungLai, McMahon, Barr, O'Connell, and Belbeck, 5005; Spigelman, Dowers, Kennedy, O'Brien, Barr, and McCaffrey, 4694

Barrett, J. C. A National Institutes of Health Workshop Report: Cellular and Molecular Mechanisms for Suppression and Reversion of Tumorigenicity—A Chemical Pathology Study Section Workshop, 2514, Meeting Report. See also Gilmer, Lamb, Oshimura, and Barrett,

Barrett-Lee, P. J., Travers, M. T., McClelland, R. A., Luqmani, Y., and Coombes, R. C. Character-ization of Estrogen Receptor Messenger RNA in Human Breast Cancer, 6653

Barrueco, J. R. See Sirotnak, Poser, and Barrueco,

Barrueco, J. R., Jacobsen, D. M., Chang, C-H., Brockman, R. W., and Sirotnak, F. M. Proposed Mechanism of Therapeutic Selectivity for 9-6-D-Arabinofuranosyl-2-fluoroadenine against Murine Leukemia Based upon Lower Capacities for Transport and Phosphorylation in Proliferative Intestinal Epithelium Compared to Tumor Cells, 700

Bar-Shavit, Z. See Rodan, Imai, Thiede, Weso-lowski, Thompson, Bar-Shavit, Shull, Mann, and Rodan, 4961

Barsky, S. H., and Goralakrishna, R. Increased Invasion and Spontaneous Metastasis of BL6 Melanoma with Inhibition of the Desmoplastic Response in C57 BL/6 Mice, 1663

Barten, D. M. See O'Dea, Mirkin, Hogenkamp, and Barten, 3656

Barth, R. F. See Johnson, Barth, Adams, Holman, Price, and Sautins, 1111

Bartholomew, J. C. See Amy and Bartholomew, 6310

Bartik, M. M., Takesue, B. Y., and Mokyr, M. B. Melphalan-induced Enhancement of Antitumor Immune Reactivity in Thymocytes of Adult BALB/c Mice Bearing a Large MOPC-315 Tumor, 4848

Bartley, J. C. See Guzman, Osborn, Bartley, Imagawa, Asch, and Nandi, 275

a, J. C. See Parmley, Akin, Barton, Gilbert, and Kinkade, 4932

Bartrons, R. See Colomer, Vives-Corrons, Pujades,

and Bartrons, 1859
Bartsch, H. See Castegnaro, Bartsch, and Chernozemsky, 3608; Kaldor, Bartsch, and Schmähl, 2749

Bartus, H. F. See Mattern, Mong, Bartus, Mirabelli, Crooke, and Johnson, 1793

Basbaum, C. B. See Kuan, Byrd, Basbaum, and Kim, 5715

Basic, I. See Milas, Wike, Hunter, Volpe, and Basic, 1069

Bassin, R. H. See Cooper, Bhattacharya, Bassin, and Salomon, 4493 Bässler, K-H. See Müller, Sladić, Zahn, Bässler,

Dogović, Gerner, Gasić, and Schröder, 6565 Bast, R. C., Jr. See Haleem, Kurtzberg, Olsen,

Rhinehardt-Clark, Leslie, Ray, Smith, Peters, Haynes, and Bast, 4608; Peters, Henner, Grochow, Olsen, Edwards, Stanbuck, Stuart, Gockerman, Moore, Bast, Seigler, and Colvin, 6402

Bastida, E., Almirall, L., Jamieson, G. A., and Ordinas, A. Cell Surface Sialylation of Two Human Tumor Cell Lines and Its Correlation with Their Platelet-activating Activity, 1767

Basu, A., Murthy, U., Rodeck, U., Herlyn, M.,
Mattes, L., and Das, M. Presence of Tumor-

associated Antigens in Epidermal Growth Fac-tor Receptors from Different Human Carcinomas, 2531

Bataille, R. See Klein, Jourdan, Vazquez, Dugas, and Bataille, 4856

Battifora, H. See Zhou, Battifora, Yokota, Yamamoto, and Cline, 6123 Bauer, H. C. F. See Brosjö, Bauer, Broström, Nils-

son, Reinholt, and Tribukait, 258 Bauer, K. See Landay, Zarcone, Grossi, and Bauer,

Bauer, S. See Klinken, Billelo, Bauer, Morse, and Thorgeirsson, 2638

Baumau, D. H. See Jones, Ota, Jackson, Jackson, Kemp, Anderson, McCamant, and Bauman,

Bautista, E. E. See Spitler, del Rio, Khentigan, Wedel, Brophy, Miller, Harkonen, Rosendorf, Lee, Mischak, Kawahata, Stoudemire, Fradkin, Bautista, and Scannon, 1717

Bayard, F. See Valette, Gas, Jozan, Roubinet, Dupont, and Bayard, 1615

Bayer, T. See Thorpe, Rose, Rasmussen, Mourid-sen, Bayer, and Keiding, 6126

Baylin, S. B. See Casero, Go, Theiss, Smith, Baylin, and Luk, 3964

Bear, A., Clayman, R. V., Elbers, J., Limas, C., Wang, N., Stone, K., Gebhard, R., Prigge, W., and Palmer, J. Characterization of Two, Human Cell Lines (TK-10, TK-164) of Renal Cell Cancer, 3856

Beattie, C. W. See Schleicher, Green, and Beattie, 4465; Schleicher, Hitselberger, and Beattie, 453; Tissot, Beattie, and Amoss, 5542

Beauchamp, R. D. See Singh, Le, Beauchamp,

Townsend, and Thompson, 5000 Bechard, D. See Fairman, Glauser, Merchant, Be-

chard, and Fowler, 3528

 Beck, K. A. See Yavelow, Caggana, and Beck, 1598
 Beck, S. A., and Tisdale, M. J. Production of Lipolytic and Proteolytic Factors by a Murine Tumor-producing Cachexia in the Host, 5919

Beck, W. T. See Danks, Yalowich, and Beck, 1297; Kelner, McMorris, Beck, Zamora, and Taetle,

3186

R. L., Safa, A. R., Wolverton, J. S., Suttle, D. P., and Trent, J. M. Pharmacological, Molecular, and Cytogenetic Analysis of "Atypical" Multidrug-resistant Human Leukemic Cells, 5455 Becker, C. See Glatt, Eich, Pertz, Becker, and

Becker, F. F. See Stout and Becker, 963

Beckner, S. K., Maluish, A. E., and Longo, D. L. Lymphokine-activated Killer Cells: Culture Conditions for the Generation of Maximal in Vitro Cytotoxicity in Cells from Normal Donors, 5504

Bedford, M. T., and van Helden, P. D. Hypomethylation of DNA in Pathological Conditions of

the Human Prostate, 5274

Beebe, D. P., and Faguet, G. B. Nutritional Requirements of Human Malignant (Leukemic) Cell Lines: Implications for Adjuvant Therapy,

Beem, E. P., Hillebrand, M. J. X., Benckhuijsen, C., and Overdijk, B. Origin of the Increased Activity of β-Glucuronidase in the Soluble Fraction of Rat Mammary Tumors during Ovariectomy-induced Regression, 3980

Beeman, D. K., Siegfried, J. M., and Mass, M. J. Effect of Phorbol Esters on Clonal Cultures of Human, Hamster, and Rat Respiratory Epithe-

lial Cells, 541

Begg, A. C. See Stewart, Luts, and Begg, 1016; Terheggen, Floot, Scherer, Begg, Fichtinger-Schepman, and den Engelse, 6719

Begleiter, A. See Jesson, Johnston, Anhalt, and Begleiter, 5935; Johnston, Pugh, and Begleiter, 4076

Begleiter, A., Glazer, R. I., Israels, L. G., Pugh, L., and Johnston, J. B. Induction of DNA Strand Breaks in Chronic Lymphocytic Leukemia following Treatment with 2'-Deoxycoformycin in Vivo and in Vitro, 2498

Behrens, B. C., Hamilton, T. C., Masuda, H., Grotzinger, K. R., Whang-Peng, J., Louie, K. G., Knutsen, T., McKoy, W. M., Young, R. C., and Ozols, R. F. Characterization of a cis-Diamminedichloroplatinum(II)-resistant Human Ovarian Cancer Cell Line and Its Use in Evaluation of Platinum Analogues, 414

Belardelli, F. See Podo, Carpinelli, Di Vito, Gian nini, Proietti, Fiers, Gresser, and Belardelli,

6481

Belasco, J. See Balis, Patel, Luks, Doherty, Holcenberg, Tan, Reaman, Belasco, Ettinger, Zimm, and Poplack, 4973

Belbeck, L. See Jarrell, Lai, Barr, McMahon, Belbeck, and O'Connell, 2340; Jarrell, YoungLai, McMahon, Barr, O'Connell, and Belbeck, 5005

Belin, D. See Busso, Belin, Failly-Crépin, and Vassalli, 364; Sappino, Busso, Belin, and Vassalli,

4043

Belinsky, S. A., Walker, V. E., Maronpot, R. R., Swenberg, J. A., and Anderson, M. W. Molecular Dosimetry of DNA Adduct Formation and Cell Toxicity in Rat Nasal Mucosa following Exposure to the Tobacco Specific Nitrosamine 4-(N-Methyl-N-nitrosamino)-1-(3-pyridyl)-1-butanone and Their Relationship to Induction of Neoplasia, 6057

Belinsky, S. A., White, C. M., Devereux, T. R., Swenberg, J. A., and Anderson, M. W. Cell Selective Alkylation of DNA in Rat Lung following Low Dose Exposure to the Tobacco Specific Carcinogen 4-(N-Methyl-N-nitrosamino)-1-(3-

pyridyl)-1-butanone, 1143

Bell, D. See Ganapathi, Grabowski, Schmidt, Bell, and Melia, 3464

Bell, J. R. See Irving, Brooks, Brereton, Galloway, Field, Bell, Harris, Baddeley, and Doddrell, 3901

Bellini, O. See Barbieri, Giuliani, Bordoni, Casazza, Geroni, Bellini, Suarato, Gioia, Penco, and Arcamone, 4001

Bellmann, B. See Ernst, Emura, Bellmann, Seinsch, and Mohr, 5112

Belloni, P. N. See Nakajima, Welch, Belloni, and Nicolson, 4869

Belman, S. See Zelikoff, Garte, Belman, Feuerstein, and Cooper, 329

Beman, J. See Stevenson, Keenan, Woodhouse, Ottow, Miller, Steller, Foon, Abrams, Beman, Larson, and Sugarbaker, 6100

Benckhuijsen, C. See Beem, Hillebrand, Benckhuijsen, and Overdijk, 3980

Benckhuijsen, C., Osman, A-M. M. A., Hillebrand, M. J. X., and Smets, L. A. Glucocorticoid Effect on Melphalan Cytotoxicity, Cell-Cycle Position, Cell Size, and [3H]Uridine Incorporation in One

of Three Human Melanoma Cell Lines, 4814 Ben-David, Y., Yefenof, E., and Kotler, M. Clonal Analysis of Radiation Leukemia Virus-induced Leukemic and Preleukemic Murine Cells, 6590 Benedict, S. H. Apparent DNA-binding Protein Specific for Cells Transformed by Avian Acute

Leukemia Viruses, 6586

Benedict, W. F., Srivatsan, E. S., Mark, C., Baner-jee, A., Sparkes, R. S., and Murphree, A. L. Complete or Partial Homozygosity of Chromosome 13 in Primary Retinoblastoma, 4189

Benetton, G. See Tonini, Radzioch, Gronberg, Clayton, Blasi, Benetton, and Varesio, 4544 Benfield, J. R. See Hammond, Gabriel, Paladugu, Azumi, Hill, and Benfield, 5202

Benjamin, E. See Gerson, Trey, Miller, and Ben-

iamin, 89

Bennett, C. L., Sinkule, J. A., Schilsky, R. L., Senekjian, E., and Choi, K. E. Phase I Clinical and Pharmacological Study of 72-Hour Continuous Infusion of Etoposide in Patients with Advanced Cancer, 1952

Bennicelli, C. See De Flora, Petruzzelli, Camoirano, Bennicelli, Romano, Rindi, Ghelarducci,

and Giuntini, 4740

Bepler, G. See Kiefer, Bepler, Kubasch, and Havemann, 6236

Bepler, G., Carney, D. N., Gazdar, A. F., and Minna, J. D. In Vitro Growth Inhibition of Human Small Cell Lung Cancer by Physalaemin,

Bepler, G., Jaques, G., Havemann, K., Koehler, A., Johnson, B. E., and Gazdar, A. F. Characterization of Two Cell Lines with Distinct Phenotypes Established from a Patient with Small Cell Lung Cancer, 1883

Beppu, T. See Yoshida, Nomura, and Beppu, 3688 Beran, M. See Andersson, Beran, Bakic, Silberman, Newman, and Zwelling, 1040

Beran, M., and Andersson, B. S. Development and Characterization of a Human Myelogenous Leu-kemia Cell Line Resistant to 4'-(9-Acridinylamino)-3-methanesulfon-m-anisidide, 1897

Berd, D., and Mastrangelo, M. J. Depletion of Suppressor-cytotoxic T-Lymphocytes by Administration of a Murine Monoclonal Antibody, 2727; Effect of Low Dose Cyclophosphamide on the Immune System of Cancer Patients: Reduction of T-Suppressor Function without Depletion of the CD8+ Subset, 3317

Berends, F. See Fichtinger-Schepman, van Oos-terom, Lohman, and Berends, 3000

Berens, M. E. See Saito, Berens, and Welander, 673

Berg, K. See Parry, Mulvihill, Miller, Berg, and Carter, 6814

Berger, U. See McClelland, Berger, Wilson, Powles, Trott, Easton, Gazet, and Coombes, 6118

Berger, U., Wilson, P., McClelland, R. A., Colston, ., Haussler, M. R., Pike, J. W., and Coomb R. C. Immunocytochemical Detection of 1,25-Dihydroxyvitamin D₃ Receptor in Breast Can-

Berger, W. H. See Derynck, Goeddel, Ullrich, Gutterman, Williams, Bringman, and Berger,

Bergeron, R. J. See Porter, McManis, Casero, and Bergeron, 2821

Bergeron, R. J., and Ingeno, M. J. Microbial Iron Chelator-induced Cell Cycle Synchronization in L1210 Cells: Potential in Combination Chemotherapy, 6010

Berinstein, N., Matthay, K. K., Papahadjopoul D., Levy, R., and Sikic, B. I. Antibody-directed Targeting of Liposomes to Human Cell Lines: Role of Binding and Internalization on Growth Inhibition, 5954

Berjesteh, K. See Yashruti, Berjesteh, and Taffet,

Berkelham ner, J., and Oxenhandler, R. W. Evaluation of Premalignant and Malignant Lesions during the Induction of Mouse Melanomas, 1251

Bern, H. A., Edery, M., Mills, K. T., Kohrman, A. F., Mori, T., and Larson, L. Long-Term Alterations in Histology and Steroid Receptor Levels of the Genital Tract and Mammary Gland fol-lowing Neonatal Exposure of Female BALB/c Crgl Mice to Various Doses of Diethylstilbestrol, 4165

Bernacki, R. J. See Niedbala, Madiyalakan, Matta,

Crickard, Sharma, and Bernacki, 4634 Bernacki, R. J., Bansal, S. K., and Gurtoo, H. L. Combinations of Mesna with Cyclophosphamide or Adriamycin in the Treatment of Mice with Tumors, 799

Bernhard, H. See Dippold, Bernhard, Klingel, Dienes, Kron, Schneider, Knuth, and Meyer zum Büschenfelde, 3873; Dippold, Klingel, Bernhard, Dienes, Knuth, and Meyer zum Büschenfelde, 2092

Berns, M. W. See Nelson and Berns, 1027; Nelson,

Roberts, and Berns, 4681

Bernstein, A. L. See Dodion, Bernstein, Fox, and Bachur, 1036 Bertani, C. See Ponz de Leon, Roncucci, di Don-

ato, Sacchetti, Pezcoller, Annoni, Bertani, Rebecchi, Balli, Galli, and Carulli, 305

Berthois, Y. See Katzenellenbogen, Kendra, Norman, and Berthois, 4355

Bertinato, P. See Prokopczyk, Rivenson, Bertinato, Brunnemann, and Hoffmann, 467

Bertino, J. R. See Lin, Cashmore, Baker, Dreyer, Ernstoff, Marsh, Bertino, Whitfield, Delap, and Grillo-Lopez, 609; McGuire, Sobrero, Hynes, and Bertino, 5975

Bertram, J. S. See Rundhaug, Gubler, Sherman, Blaner, and Bertram, 5637

Bertram, J. S., Kolonel, L. N., and Meyskens, F. L., Jr. Rationale and Strategies for Chemoprevention of Cancer in Humans, 3012, Position

Paper
Betsholtz, C. See Nistér, Wedell, Betsholtz, ByWestermark, and Mark, water, Pettersson, Westermark, and Mark, 4953; Peres, Betsholtz, Westermark, and Heldin, 3425

Bettelheim, R. See Coombes, Powles, Easton, Chilvers, Ford, Smith, McKinna, White, Bradbeer, Yarnold, Nash, Bettelheim, Dowsett, Gazet, and Investigators of the Collaborative Breast Cancer Project, 2494

uscart, R. See Bonneterre, Peyrat, Beuscart, Le-

febvre, and Demaille, 4724

Bhargava, G., Head, J. F., Bailey, S. C., and Green-gard, O. Characterization of a Mammary Carcinoma Elaborated Factor Stimulating γ-Glutamyltranspeptidase Expression in Bone Marrow Cells, 6262

Bhattacharya, B. See Cooper, Bhattacharya, Bas-sin, and Salomon, 4493 Bialoski, S. See Boyd, Bialoski, and Brattain, 4099

Bickers, D. R. See Das, Khan, Asokan, Bickers, and Mukhtar, 767; Das, Mukhtar, Bik, and Bickers, 760

Biedermann, K. A., and Landolph, J. R. Induction of Anchorage Independence in Human Diploid Foreskin Fibroblasts by Carcinogenic Metal

Biedler, J. L. See DeClerck, Bomann, Spengler, and Biedler, 6505; Jongsma, Spengler, Van der Bliek, Borst, and Biedler, 2875; Rettig, Spen-gler, Chesa, Old, and Biedler, 1383; Sadée, Yu, Richards, Preis, Schwab, Brodsky, and Biedler,

Biener, R. See Avramis, Biener, Krailo, Finklestein, Ettinger, Willoughby, Siegel, and Holcenberg, 6786

Bigner, D. D. See Blasberg, Nakagawa, Bourdon, Groothuis, Patlak, and Bigner, 4432; Lee, Bul-

lard, Wikstrand, Zalutsky, Muhlbaier, and Bigncr, 1941; Warnke, Friedman, Bigner, and Groothuis, 1687

Bik, D. P. See Das, Mukhtar, Bik, and Bickers,

Billelo, J. See Klinken, Billelo, Bauer, Morse, and Thorgeirsson, 2638

Billings, P. C., Shuin, T., Lillehaug, J., Miura, T., Roy-Burman, P., and Landolph, J. R. Enhanced Expression and State of the c-myc Oncogene in Chemically and X-Ray-transformed C3H/10T1/2 Cl 8 Mouse Embryo Fibroblasts, 3643

Bird, R. P. See Zhang, Bird, and Bruce, 4905
Birt, D. F., Julius, A. D., Hasegawa, R., St. John, M., and Cohen, S. M. Effect of L-Tryptophan Excess and Vitamin B6 Deficiency on Rat Urinary Bladder Cancer Promotion, 1244

Bishop, J. F. See Morstyn, Brown, Novak, Gardner, Bishop, and Garson, 3322; Reece, Morris, Bishop, Olver, and Raghavan, 2996

Bishov, S. D. See Fram, Robichaud, Bishov, and Wilson, 3360

Bissell, M. J. See Smith and Bissell, 3337

Biswas, R., and Vonderhaar, B. K. Role of Serum in the Prolactin Responsiveness of MCF-7 Human Breast Cancer Cells in Long-Term Tissue

Culture, 3509 Bittner, G. N. See Schiller, Bittner, Storer, and

Willson, 2809; Willson, Bittner, Oberley, Meisner, and Weese, 2704 Bizzari, J-P. See Khayat, Lokiec, Bizzari, Weil, Meeus, Sellami, Rouesse, Banzet, and Jacquil-

lat. 6782 Bjorn, M. J. See FitzGerald, Bjorn, Ferris, Win-

kelhake, Frankel, Hamilton, Ozols, Willingham, and Pastan, 1407

Bjorn, M. J., and Groetsema, G. Immunotoxins to the Murine Transferrin Receptor: Intracavitary Therapy of Mice Bearing Syngeneic Peritoneal Tumors, 6639

Black, A., Freeman, J. W., Zhou, G., and Busch, H. Novel Cell Cycle-related Nuclear Proteins Found in Rat and Human Cells with Monoclonal Antibodies, 3266

Black, J. D. See Ishikura, Honma, Honma, Hozumi, Black, Kieber-Emmons, and Bloch, 1052 Black, J. J. See Dunn, Black, and Maccubbin,

Blacker, P. C. See McLemore, Liu, Blacker, Gregg,

Alley, Abbott, Shoemaker, Bohlman, Litterst, Hubbard, Brennan, McMahon, Fine, Eggleston, Mayo, and Boyd, 5132

Blackshear, P. J. See Girard, Stevens, Blackshear, Merrill, Wood, and Kuo, 2892

Blair, D. See Tainsky, Shamonski, Blair, and Giovanella, 3235

Blakey, D. C. See Thorpe, Wallace, Knowles, Relf, Brown, Watson, Knyba, Wawrzynczak, and Blakey, 5924

Blakey, D. C., Watson, G. J., Knowles, P. P., and orpe, P. E. Effect of Chemical Deglycosylation of Ricin A Chain on the in Vivo Fate and Cytotoxic Activity of an Immunotoxin Composed of Ricin A Chain and Anti-Thy 1.1 Anti-

Blaner, W. S. See Rundhaug, Gubler, Sherman, Blaner, and Bertram, 5637

Blank, E. W. See Ceriani, Blank, and Peterson,

Blasberg, R. G. See Hiraga, Klubes, Owens, Cysyk,

and Blasberg, 3296
Blasberg, R. G., Nakagawa, H., Bourdon, M. A.,
Groothuis, D. R., Patlak, C. S., and Bigner, D. D. Regional Localization of a Glioma-associated Antigen Defined by Monoclonal Antibody 81C6 in Vivo: Kinetics and Implications for Diagnosis and Therapy, 4432 Blaschke, T. See Coleman, Halsey, Cox, Hirst,

Blaschke, Howes, Wasserman, Urtasun, Pajak, Hancock, Phillips, and Noll, 319

Blasi, E. See Tonini, Radzioch, Gronberg, Clayton, Blasi, Benetton, and Varesio, 4544

Blatt, J., and Stitely, S. Antineuroblastoma Activity of Desferoxamine in Human Cell Lines, 1749 Blayney, D. See Carr, Rahbar, Doroshow, Blayney, Goldberg, Leong, and Asmeron, 4199

Blazek, B. E. See Ranken, White, Gottfried, Yonkovich, Blazek, Moss, Fee, and Liu, 5684

Blick, M. See Eisbruch, Blick, Lee, Sacks, and Gutterman, 3603

Blick, M., Sherwin, S. A., Rosenblum, M., and Gutterman, J. Phase I Study of Recombinant Tumor Necrosis Factor in Cancer Patients, 2986

Blijham, G. H. See Arends, Schutte, Wiggers, Verstijnen, Blijham, and Bosman, 4342; Schutte, Reynders, Wiggers, Arends, Volovics, Bosman, and Blijham, 5494

Bliven, S. F. See Leith, Michelson, Faulkner, and Bliven, 1045

Bloch, A. See Ishikura, Honma, Honma, Hozumi, Black, Kieber-Emmons, and Bloch, 1052

Bloch, M. See Crouch, Stone, Bloch, and Mc-Divitt, 6086 Block, A. L. See Seidenfeld, Barnes, Block, and

Erickson, 4538

Block, L. H. See Wieczorek, Sitaramam, Machleidt, Rhyner, Perruchoud, and Block, 6407

Blosmanis, R., Wright, J. A., and Goldenberg, G. J. Sensitivity to Melphalan as a Function of Transport Activity and Proliferative Rate in BALB/c 3T3 Fibroblasts, 1273

Blot, W. J. See Levin, Gao, Blot, Zheng, and Fraumeni, 5777; Malker, McLaughlin, Silverman, Ericsson, Stone, Weiner, Malker, and Blot, 6763; McLaughlin, Malker, Malker, Stone, Ericsson, Blot, Weiner, and Fraumeni,

Blottière, H. M., Maurel, C., and Douillard, J-Y. Immune Function of Patients with Gastrointe tinal Carcinoma after Treatment with Multiple Infusions of Monoclonal Antibody 17.1A, 5238

lumberg, P. M. See Dell'Aquila, Nguyen, Herald, Pettit, and Blumberg, 6006; Nakadate and Blumberg, 6537; Sako, Yuspa, Herald, Pettit, and Blumberg, 5445
Blumenfeld, D. See Klevecz, Shymko, Blumenfeld,

and Braly, 6267

Bodell, W. J. See Aida and Bodell, 1361, 5052; Evans, Bodell, Tokuda, Doane-Setzer, and Smith. 2525

Bogdanovic, R. P. See Brandes, Bogdanovic, Cawker, and LaBella, 4025

Bogden, A. See Griffin, Richardson, Houston, LePage, Bogden, and Raso, 4266; Reale, Griffin, Compton, Graham, Townes, and Bogden, 3199 ogenmann, E., Moghadam, H., DeClerck, Y. A.,

and Mock, A. c-myc Amplification and Expression in Newly Established Human Osteosarcoma Cell Lines, 3808

Bohlman, M. E. See McLemore, Liu, Blacker, Gregg, Alley, Abbott, Shoemaker, Bohlman, Litterst, Hubbard, Brennan, McMahon, Fine, Eggleston, Mayo, and Boyd, 5132

Böhmer, R. M. See Scourides, Böhmer, Kaye, and Morstyn, 3439

Bohn, W. See Sivam, Pearson, Bohn, Oldham, Sadoff, and Morgan, 3169

Bohr, V. A., Phillips, D. H., and Hanawalt, P. C. Heterogenous DNA Damage and Repair in the Mammalian Genome, 6426, *Perspectives in* Cancer Research

Boll, J. See Green, Boll, Parrish, Kochevar, and Oseroff, 410

Bomann, E. T. See DeClerck, Bomann, Spengler, and Biedler, 6505

Bonavida, B. See Pulciani, Sakano, Ohnishi, Anastasi, Pecorelli, Fiorucci, Oppi, Rossi, and Bonavida, 523

Bonfanti, M. See Airoldi, Bonfanti, Magagnotti, and Fanelli, 3697

Bongarzone, I. See Borrello, Pierotti, Bongarzone, Donghi, Mondellini, and Della Porta, 75 Böning, B. See Issels, Bourier, Böning, Li, Mak, and Wilmanns, 2268

Bonneterre, J., Peyrat, J. P., Beuscart, R., Lefebvre, J., and Demaille, A. Prognostic Significance of Prolactin Receptors in Human Breast Cancer,

Bonventre, J. V. See Ara, Aprille, Malis, Kane, Cincotta, Foley, Bonventre, and Oseroff, 6580 Boone, L. R. See Stowers, Glover, Reynolds, Boone, Maronpot, and Anderson, 3212

Boorstein, R. J., Levy, D. D., and Teebor, G. W. Toxicity of 3-Aminobenzamide to Chinese Hamster Cells Containing 5-Hydroxymethyluracil in Their DNA, 4372

Boothman, D. A., Briggle, T. V., and Greer, S. Protective, Tumor-selective Dual Pathway Activation of 5-Fluoro-2'-deoxycytidine Provided by Tetrahydrouridine in Mice Bearing Mammary Adenocarcinoma-755, page 2344; Tumorselective Metabolism of 5-Fluoro-2'-deoxycytidine Coadministered with Tetrahydrouridine Compared to 5-Fluorouracil in Mice Bearing Lewis Lung Carcinoma, 2354

Boothman, D. A., Greer, S., and Pardee, A. B. Potentiation of Halogenated Pyrimidine Radiosensitizers in Human Carcinoma Cells by β-Lapachone (3,4-Dihydro-2,2-dimethyl-2Hnaphtho[1,2-b]pyran-5,6-dione), a Novel DNA

Repair Inhibitor, 5361

Borch, R. F. See Kwon, Maddison, LoCastro, and Borch, 1505

Borden, E. C. See Ruzicka, Schmid, Groveman, Cummings, and Borden, 4582; Sidky and Borden, 5155

Bordoni, T. See Barbieri, Giuliani, Bordoni, Casazza, Geroni, Bellini, Suarato, Gioia, Penco, and Arcamone, 4001

Borlinghaus, K. P., Fitzpatrick, D. A., Heindel, N. D., Mattis, J. A., Mease, B. A., Schray, K. J., Shealy, D. J., Walton, H. L., Jr., and Woo, D. V. Radiosensitizer Conjugation to the Carcinoma 19-9 Monoclonal Antibody, 4071

Borrebaeck, C. A. K., and Schön, A. Antiproliferative Response of Human Leukemic Cells: Lectin Induced Inhibition of DNA Synthesis and Cellular Metabolism, 4345

Borrello, M. G., Pierotti, M. A., Bongarzone, I., Donghi, R., Mondellini, P., and Della Porta, G. DNA Methylation Affecting the Transforming Activity of the Human Ha-ras Oncogene, 75

Borst, P. See Jongsma, Spengler, Van der Bliek, Borst, and Biedler, 2875

sch, X. See Hall, Inskip, Loik, Tomatis, Day, O'Conor, Bosch, Muir, Parkin, Muñoz, Green wood, Whittle, Ryder, Oldfield, N'jie, Smith, and Coursaget, 5782

Bosman, F. T. See Arends, Schutte, Wiggers, Verstijnen, Blijham, and Bosman, 4342; Schutte, Reynders, Wiggers, Arends, Volovics, Bosman, and Blijham, 5494

Bosman, P. See Elliott, Carlow, Ivimey, Arnold, Hampton, and Bosman, 4915

Boucher, W. S. See Ofner, Leav, Boucher, and Vena, 1701

Boucheron, J. A., Richardson, F. C., Morgan, P. H., and Swenberg, J. A. Molecular Dosimetry of O4-Ethyldeoxythymidine in Rats Continuously Exposed to Diethylnitrosamine, 1577

Boulzar, Z., Rostene, W. H., Treilhou-Lahille, F., Pidoux, E., Milhaud, G., and Moukhtar, M. S. Early Spontaneous Deficiency of Calcitonin Renal Binding Sites in Rats with a High Incidence of Calcitonin-secreting Tumors (WAG/Rij), 3595

Bourdon, M. A. See Blasberg, Nakagawa, Bourdon, Groothuis, Patlak, and Bigner, 4432

Bourier, S. See Issels, Bourier, Böning, Li, Mak, and Wilmanns, 2268

Bouziges, F. See Simon-Assmann, Bouziges, Dav-iaud, Haffen, and Kedinger, 4478 Bovée, W. M. M. J. See Sijens, Bovée, Seijkens,

Koole, Los, and van Rijssel, 6467 Bowden, G. T. See Gensler, Watson, Moriguchi,

and Bowden, 967; Jaffe and Bowden, 6692 Bowdon, B. J., Waud, W. R., Wheeler, G. P., Hain, R., Dansby, L., and Temple, C., Jr. Comparison of 1,2-Dihydropyrido[3,4-b]pyrazines (1-Deaza-

7,8-dihydropteridines) with Several Other Inhibitors of Mitosis, 1621 Bowker, R. J. See Hoon, Bowker, and Cochran,

1529 Boyd, D., Bialoski, S., and Brattain, M. G. Effects of Difluoromethylornithine and Dicyclohexyl ammonium Sulfate on the Transformed State of

AKR-MCA Cells, 4099 Boyd, J. A., and Eling, T. E. Prostaglandin H Synthase-catalyzed Metabolism and DNA Binding of 2-Naphthylamine, 4007

Boyd, M. See Gorelik, Ovejera, Shoemaker, Jarvis, Alley, Duff, Mayo, Herberman, and Boyd, 5739 Boyd, M. A. See Case, Gams, Ervin, Boyd, and Oldham, 6393

Boyd, M. R. See Lau, McMahon, McMenamin, Schuller, and Boyd, 3757; McLemore, Liu, Blacker, Gregg, Alley, Abbott, Shoemaker, Bohlman, Litterst, Hubbard, Brennan, Mc-Mahon, Fine, Eggleston, Mayo, and Boyd, 5132 Boylan, E. S. See Rothschild, Boylan, Calhoon,

and Vonderhaar, 4508

Bradbeer, J. See Coombes, Powles, Easton, Chilvers. Ford. Smith. McKinna, White, Bradbeer, Yarnold, Nash, Bettelheim, Dowsett, Gazet, and Investigators of the Collaborative Breast Cancer Project, 2494

Bradley, C. See Kerr, Kaye, Cassidy, Bradley, Rankin, Adams, Setanoians, Young, Forrest, Sou-

kop, and Clavel, 6776

am, K. See Lipinski, Braham, Philip, Wiels, Philip, Goridis, Lenoir, and Tursz, 183

Braly, P. S. See Klevecz, Shymko, Blumenfeld, and Braly, 6267

Brambilla, G., Carlo, P., Finollo, R., and Sciabà, L. Dose-Response Curves for Liver DNA Fragmentation Induced in Rats by Sixteen N-Nitroso Compounds as Measured by Viscometric and Alkaline Elution Analyses, 3485

Brami, M. See Monet, Thomas, Dautigny, Brami, and Bader, 5116

Branch, R. A. See Kaisary, Smith, Jaczq, Mc-

Branch, R. A. See Kansay, Smarth Allister, Wilkinson, Ray, and Branch, 5488
Brandes, L. J., Bogdanovic, R. P., Cawker, M. D., and LaBella, F. S. Histamine and Growth: Interaction of Antiestrogen Binding Site Ligands with a Novel Histamine Site That May Be Associated with Calcium Channels, 4025

Brandt, I. See Gillner, Brittebo, Brandt, Söderkvist, Appelgren, and Gustafsson, 4150

Branstetter, D. G., Stoner, G. D., Schut, H. A. J Senitzer, D., Conran, P. B., and Goldblatt, P. J. Ethylnitrosourea-induced Transplacental Carcinogenesis in the Mouse: Tumor Response. DNA Binding, and Adduct Formation, 348

Brasitus, T. A. See Dahiya, Dudeja, and Brasitus, 1031

Brattain, D. E. See Hoosein, Brattain, McKnight, Levine, and Brattain, 2950

Brattain, M. G. See Boyd, Bialoski, and Brattain, 4099; Hoosein, Brattain, McKnight, Levine, and

Brattain, 2950

Braun, L., Goyette, M., Yaswen, P., Thompson, N. L., and Fausto, N. Growth in Culture and Tumorigenicity after Transfection with the ras Oncogene of Liver Epithelial Cells from Carcinogen-treated Rats, 4116

Braverman, S. See Rappaport, Alterman, Braverman, and Stackpole, 5391

Bravo Cuellar, A., Scott Algara, D., Metzger, G., and Orbach-Arbouys, S. Enhanced Activity of Mouse Peritoneal Cells after Aclacinomycin Administration, 3477

Bray, K. R., Koda, J. E., and Gaur, P. K. Serum Levels and Biochemical Characteristics of Cancer-associated Antigen CA-549, a Circulating Breast Cancer Marker, 5853

Braylan, R. C. See Smith, Braylan, Edmundson, Nutkis, and Wakeland, 2062

Bredehorst, R. See Panneerselvam, Bredehorst,

and Vogel, 4601 Brehmer-Andersson, E. E. See Hirano, Domar Yamamoto, Brehmer-Andersson, Wahren, and

Stigbrand, 2543 Breitbart, E. W. See Lehmann, Holzmann, Breitbart, Schmiegelow, Riethmüller, and Johnson,

Breitman, T. R. See Imaizumi, Uozumi, and Breitman, 1434

Brennan, R. H. See McLemore, Liu, Blacker, Gregg, Alley, Abbott, Shoemaker, Bohlman, Litterst, Hubbard, Brennan, McMahon, Fine, Eggleston, Mayo, and Boyd, 5132

Brenner, D. E., Anthony, L. B., Halter, S., Harris, N. L., Collins, J. C., and Hande, K. R. Effect of Allyl Alcohol-induced Sublethal Hepatic Dam age upon Doxorubicin Metabolism and Toxicity

in the Rabbit, 3259

Brent, T. P., Lestrud, S. O., Smith, D. G., and Remack, J. S. Formation of DNA Interstrand Cross-Links by the Novel Chloroethylating Agent 2-Chloroethyl(methylsulfonyl)methane-sulfonate: Suppression by O⁶-AlkylguanineDNA Alkyltransferase Purified from Human Leukemic Lymphoblasts, 3384

Brent, T. P., Remack, J. S., and Smith, D. G. Characterization of a Novel Reaction by Human O6-Alkylguanine-DNA Alkyltransferase with 1,3-Bis(2-chloroethyl)-1-nitrosourea-treated DNA, 6185

Brereton, I. M. See Irving, Brooks, Brereton, Galloway, Field, Bell, Harris, Baddeley, and Dod-

Bresalier, R. S., Hujanen, E. S., Raper, S. E., Roll, F. J., Itzkowitz, S. H., Martin, G. R., and Kim, Y. S. An Animal Model for Colon Cancer Metastasis: Establishment and Characterization of Murine Cell Lines with Enhanced Liver-metastasizing Ability, 1398

Briggle, T. V. See Boothman, Briggle, and Greer, 2344, 2354

Briggs, R. C. See Olinski, Wedrychowski, Schmidt, Briggs, and Hnilica, 201

Brindley, L. See Doyle, Koths, Brindley, Fong, Halenbeck, Ransom, Pomato, Cleveland, Mc-Cabe, and Hanna, 914

Bringman, T. S. See Derynck, Goeddel, Ullrich, Gutterman, Williams, Bringman, and Berger,

Brinton, L. A. See Schiffman, Haley, Felton, Andrews, Kaslow, Lancaster, Kurman, Brinton, Lannom, and Hoffmann, 3886

Brinton, L. A., Tashima, K. T., Lehman, H. F., Levine, R. S., Mallin, K., Savitz, D. A., Stolley, P. D., and Fraumeni, J. F., Jr. Epidemiology of

Cervical Cancer by Cell Type, 1706
Brittebo, E. B. Metabolic Activation of Phenacetin in Rat Nasal Mucosa: Dose-dependent Binding to the Glands of Bowman, 1449. See also Gillner, Brittebo, Brandt, Söderkvist, Appelgren, and Gustafsson, 4150

Britton, K. E. See Ward, Mather, Hawkins, Crowther, Shepherd, Granowska, Britton, and Slevin, 4719

Broadway, P. See Hunter, Broadway, Sun, Niell,

and Mauer, 2737 Brock, W. A. See Singletary, Baker, Spitzer, Tucker, Tomasovic, Brock, Ajani, and Kelly,

Brockenbrough, J. S., and Korc, M. Inhibition of Epidermal Growth Factor Binding in Rat Pan-creatic Acini by Palmitoyl Carnitine: Evidence for Ca2+ and Protein Kinase C Independent Regulation, 1805

Brockhausen, I. See Baker, Kanani, Brockhausen, Schachter, Hindenburg, and Taub, 2763

Brockman, R. W. See Barrueco, Jacobsen, Chang, Brockman, and Sirotnak, 700

Brodeur, G. M., Hayes, F. A., Green, A. A., Casper, J. T., Wasson, J., Wallach, S., and Seeger, R. C. Consistent N-myc Copy Number in Simultane-ous or Consecutive Neuroblastoma Samples from Sixty Individual Patients, 4248

Brodie, A. M. H. See Dowsett, Goss, Powles, Hutchinson, Brodie, Jeffcoate, and Coombes,

Brodsky, F. M. See Sadée, Yu, Richards, Preis, Schwab, Brodsky, and Biedler, 5207

Sriwao, Browssy, and Breeter, 3207 Broers, J. L. V., Rot, M. K., Oostendorp, T., Huysmans, A., Wagenaar, S. S., Wiersma-van Tilburg, A. J. M., Vooijs, G. P., and Ramaekers, F. C. S. Immunocytochemical Detection of Human Lung Cancer Heterogeneity Using Antibodies to Epithelial, Neuronal, and Neuroendocrine Antigens, 3225

Broggini, M. See Catapano, Broggini, Erba, Ponti, Mariani, Citti, and D'Incalci, 4884; Chiabrando, Broggini, Castelli, Cozzi, Castagnoli, Donelli, Garattini, Giavazzi, and Fanelli, 988

Bronzert, D., Silverman, S., and Lippman, M. Estrogen Inhibition of a M. 39,000 Glycoprotein Secreted by Human Breast Cancer Cells, 1234 Brookmeyer, R. See Szeluga, Stuart, Brookmeyer,

Utermohlen, and Santos, 3309

Brooks, C. L. See Rosol, Capen, and Brooks, 690 Brooks, S. C., Horwitz, J. P., Odden, D., and Cor-bett, T. A-Ring Substituted Estrogens as Inhib-itors of the MXT Transplantable Mammary Ductal Carcinoma, 4623

Brooks, W. M. See Irving, Brooks, Brereton, Galloway, Field, Bell, Harris, Baddeley, and Doddrell 3901

Brophy, N. A. See Spitler, del Rio, Khentigan, Wedel, Brophy, Miller, Harkonen, Rosendorf, Lee, Mischak, Kawahata, Stoudemire, Fradkin, Bautista, and Scannon, 1717

Brosjö, O., Bauer, H. C. F., Broström, L-Å., Nilsson, O. S., Reinholt, F. P., and Tribukait, B. Growth Inhibition of Human Osteosarcomas in Nude Mice by Human Interferon-α: Significance of Dose and Tumor Differentiation, 258

Broström, L-Å. See Brosjö, Bauer, Broström, Nilsson, Reinholt, and Tribukait, 258

Brouet, J. C. See Dellagi, Lipinski, Paulin, Portier, Lenoir, and Brouet, 1170

Brown, A. N. F. See Thorpe, Wallace, Knowles, Relf, Brown, Watson, Knyba, Wawrzynczak, and Blakey, 5924

Brown, B. A., Comeau, R. D., Jones, P. L., Liberatore, F. A., Neacy, W. P., Sands, H., and Gallagher, B. M. Pharmacokinetics of the Monoclonal Antibody B72.3 and Its Fragments Labeled with Either ¹²⁵I or ¹¹¹In, 1149

Brown, B. A., Davis, G. L., Saltzgaber-Muller, J., Simon, P., Ho, M-K., Shaw, P. S., Stone, B. A., Sands, H., and Moore, G. P. Tumor-specific Genetically Engineered Murine/Human Chimeric Monoclonal Antibody, 3577

Brown, E. J. See Ratliff, Palmer, McGarr, and Brown, 1762

Brown, J. See Morstyn, Brown, Novak, Gardner,

Bishop, and Garson, 3322 Broxmeyer, H. E. See Lu, Hangoc, Oliff, Chen,

Shen, and Broxmeyer, 4184
Bruce, D. A. See Takahashi, Herlyn, Atkinson, Powe, Rodeck, Alavi, Bruce, and Koprowski,

Bruce, W. R. Recent Hypotheses for the Origin of Colon Cancer, 4237, Perspectives in Cancer Research. See also Zhang, Bird, and Bruce, 4905

Bruderman, I. See Rabinowich, Cohen, Bruder-

man, Steiner, and Klajman, 173

Brueggemeier, R. W., and Katlic, N. E. Effects of the Aromatase Inhibitor 7α -(4'-Amino)phenylthio-4-androstene-3,17-dione in MCF-7 Human Mammary Carcinoma Cell Culture, 4548 emann, K. D. See Prokopczyk, Rivenson,

Bertinato, Brunnemann, and Hoffmann, 467 Bruno, R. See Rahmani, Bruno, Iliadis, Favre, Just, Barbet, and Cano, 5796

Brunson, K. W. See Joshi, Tilden, Jackson, Sharp, and Brunson, 3551

Brustad, T. See Rofstad, Wahl, and Brustad, 106 Bryant, G. See Colcher, Esteban, Carrasquillo, Sugarbaker, Reynolds, Bryant, Larson, and Schlom, 1185, 4218

Bryant, M. S., Skipper, P. L., Tannenbaum, S. R., and Maclure, M. Hemoglobin Adducts of 4-Aminobiphenyl in Smokers and Nonsmokers,

Bryke, C. R. See Graziano, Cowan, Carney, Bryke, Mitter, Johnson, Mark, Planas, Catino, Comis, and Poiesz, 2148

Buchegger, F. See Sutherland, Buchegger, Schreyer, Vacca, and Mach, 1627

Buchmann, A., Schwarz, M., Schmitt, R., Wolf, C. R., Oesch, F., and Kunz, W. Development of Cytochrome P-450-altered Preneoplastic and Neoplastic Lesions during Nitrosamine-induced Hepatocarcinogenesis in the Rat, 2911

Buckman, D. K., Erickson, K. L., and Ross, B. D. Dietary Fat Modulation of Murine Mammary Tumor Metabolism Studied by in Vivo ³¹P-Nuclear Magnetic Resonance Spectroscopy, 5631 Bueti, C. See Traganos, Bueti, Darzynkiewicz, and

Buffe, D. See Vilette, Emanoil-Ravier, Buffe, Rim-

baut, and Peries, 867

Bugelski, P. J., Corwin, S. P., North, S. M., Kirsh, R. L., Nicolson, G. L., and Poste, G. Macrophage Content of Spontaneous Metastases at Different Stages of Growth, 4141

Bulba, A. P. See Dupere, Bulba, and O'Connor, 2284

Bullard, D. E. See Lee, Bullard, Wikstrand, Zalutsky, Muhlbaier, and Bigner, 1941

Bunin, G. R., Kramer, S., Marrero, O., and Mead-ows, A. T. Gestational Risk Factors for Wilms' Tumor: Results of a Case-Control Study, 2972

Bunn, P. A., Jr. See Doyle, Cuttitta, Mulshine, Bunn, and Minna, 5009; Keenan, Weinstein, Carrasquillo, Bunn, Reynolds, Foon, Smarte, Ghosh, Fejka, Larson, and Mulshine, 6093; Mulshine, Keenan, Carrasquillo, Walsh, Linnoila, Holton, Harwell, Larson, Bunn, and Weinstein, 3572

Burchell, J., Gendler, S., Taylor-Papadimitriou, J., Girling, A., Lewis, A., Millis, R., and Lamport, D. Development and Characterization of Breast Cancer Reactive Monoclonal Antibodies Directed to the Core Protein of the Human Milk

Mucin, 5476

Burgess, L. See Kelland, Burgess, and Steel, 4947 ürkle, A. Meyer, T., Hilz, H., and zur Hausen, H. Enhancement of N-Methyl-N'-nitro-N-nitrosoguanidine-induced DNA Amplification in a Simian Virus 40-transformed Chinese Hamster Cell Line by 3-Aminobenzamide, 3632

Burleson, G. R. See Luster, Germolec, Burleson Jameson, Ackermann, Lamm, and Hayes, 2259 Burnett, D. A. See Tempero, Uchida, Takasaki, Burnett, Steplewski, and Pour, 5501

Burns, C. P. See Spector and Burns, 4529 Burns, G. F. See Werkmeister, Triglia, Mackay, Dowling, Varigos, Morstyn, and Burns, 225 Burns, H. J. G. See Fearon, Plumb, Burns, and

Calman, 3684

Burres, N. S., and Cass, C. E. Inhibition of Methotrexate-induced Differentiation of Cultured Human Choriocarcinoma (BeWo) Cells by Thymidine, 5059

Busch, H. See Black, Freeman, Zhou, and Busch, 3266; Chatterjee, Freeman, and Busch, 1123, 6329; Freeman, Dowell, Ochs, Ross, and Busch,

Busso, N. See Sappino, Busso, Belin, and Vassalli, 4043

Busso, N., Belin, D., Failly-Crépin, C., and Vassalli, J-D. Glucocorticoid Modulation of Plasminogen Activators and of One of Their Inhibitors in the Human Mammary Carcinoma Cell Line MDA-MB-231, page 364
Busza, A. See Rowlinson, Snook, Busza, and Epe-

netos, 6528

Butcher, R. W. See Lichtner, Goka, Butcher, and

Nicolson, 1870

Byers, V. S., Pimm, M. V., Pawluczyk, I. Z. A.,
Lee, H. M., Scannon, P. J., and Baldwin, R. W.
Biodistribution of Ricin Toxin A Chain-Monoclonal Antibody 791T/36 Immunotoxin and Influence of Hepatic Blocking Agents, 5277

Byers, V. S., Pimm, M. V., Scannon, P. J., Pawluczyk, I., and Baldwin, R. W. Inhibition of Growth of Human Tumor Xenografts in Athymic Mice Treated with Ricin Toxin A Chain-Monoclonal Antibody 791T/36 Conjugates, 5042 Byrd, J. C. See Kuan, Byrd, Basbaum, and Kim,

Bywater, M. See Nistér, Wedell, Betsholtz, Bywater, Pettersson, Westermark, and Mark, 4953

Cabot, M. C. See Zhang and Cabot, 135

Caggana, M. See Yavelow, Caggana, and Beck, 1598

Cai, H. See Deng, Lu, Chen, Miao, Lu, Li, Cai, Xu, E, and Liu, 3195

Calabretta, B. See Torelli, Venturelli, Coló, Zanni, Selleri, Moretti, Calabretta, and Torelli, 5266 Calderwood, S. K. See Stevenson, Calderwood, and Hahn, 3712

Caldwell, M. See Reddy, Caldwell, and Fialkow,

Calhoon, R. E. See Rothschild, Boylan, Calhoon,

and Vonderhaar, 4508 Call, K. M. See Kaden, Call, Leong, Komives, and

Thilly, 1993

n, R. See Nara, Dunlop, Robey, Callahan, and Fischinger, 667; Ohuchi, Horan Hand, Merlo, Fujita, Mariani-Costantini, Thor, Nose, Callahan, and Schlom, 1413

Callery, P. S. See Egorin, Zuhowski, Cohen, Geelhaar, Callery, and Van Echo, 6142 Calman, K. C. See Fearon, Plumb, Burns, and

Calman, 3684

Calvo, F. See Pancino, Charpin, Calvo, Guillemin, and Roseto 4444

Camellin, P. See Corallini, Pagnani, Viadana, Camellin, Caputo, Reschiglian, Rossi, Altavilla, Selvatici, and Barbanti-Brodano, 6671

Camoirano, A. See De Flora, Camoirano, Romano, Astengo, Cesarone, and Millman, 4052; De Flora, Petruzzelli, Camoirano, Bennicelli, Romano, Rindi, Ghelarducci, and Giuntini, 4740 ampen, D. B., Sloop, T. C., Maronpot, R. R., and

Lucier, G. W. Continued Development of Hepatic γ-Glutamyltranspeptidase-positive Foci upon Withdrawal of 17α-Ethynylestradiol in Diethylnitrosamine-initiated Rats, 2328

Cano, J-P. See Rahmani, Bruno, Iliadis, Favre, Just, Barbet, and Cano, 5796 Cantu, A. R. See Reiners, Pence, Barcus, and

Cantu, 1775

Capen, C. C. See Rosol, Capen, and Brooks, 690 Capizzi, R. L See Sur, Fernandes, Kute, and Capizzi, 1313

Cappa, P. M. See Alessandri, Filippeschi, Sini-baldi, Mornet, Passera, Spreafico, Cappa, and Gullino, 4243

Capranico, G., Riva, A., Tinelli, S., Dasdia, T., and Zunino, F. Markedly Reduced Levels of Anthra-cycline-induced DNA Strand Breaks in Resistant P388 Leukemia Cells and Isolated Nuclei,

Caputo, A. See Corallini, Pagnani, Viadana, Camellin, Caputo, Reschiglian, Rossi, Altavilla, Selvatici, and Barbanti-Brodano, 6671

Carbone, E. See Fontana, Del Vecchio, Raciopi Carbone, Pinto, Colletta, and Zappacosta, 4178 Cardarelli, C. See Lyall, Hwang, Cardarelli, FitzGerald, Akiyama, Gottesman, and Pastan, 2961

Cardillo, F. M. See Herlyn, Rodeck, Mancianti, Cardillo, Lang, Ross, Jambrosic, and Koprowski, 3057

Carlo, P. See Brambilla, Carlo, Finollo, and Sciabà, 3485 Carlone, S. See Russo, Taningher, Pala, Pisano, Pedemonte, De Angeli, Carlone, Santi, and Parodi, 2866

Carlow, D. A. See Elliott, Carlow, Ivimey, Arnold, Hampton, and Bosman, 4915

Carlson, G. P. See Morse, Baird, and Carlson,

Carlson, P. See Leftwich, Carlson, Adelman, and Hall, 1319

Carlsson, J. See Acker, Carlsson, Holtermann, Nederman, and Nylén, 3504

Carmella, S. G., and Hecht, S. S. Formation of Hemoglobin Adducts upon Treatment of F344 Rats with the Tobacco-specific Nitrosamines 4-(Methylnitrosamino)-1-(3-pyridyl)-1-butanone and N'-Nitrosonornicotine, 2626

Carmichael, J. See Park, Kramer, Steinberg, Car-

michael, Collins, Minna, and Gazdar, 5875 Carmichael, J., DeGraff, W. G., Gazdar, A. F., Minna, J. D., and Mitchell, J. B. Evaluation of a Tetrazolium-based Semiautomated Colorimetric Assay: Assessment of Chemosensitivity Testing, 936; Evaluation of a Tetrazolium-based Semiautomated Colorimetric Assay: Assessment of Radiosensitivity, 943

Carnes, B. A. See Russell, Staffeldt, Wright, Prap-

uolenis, Carnes, and Peraino, 1130 Carney, D. N. See Bepler, Carney, Gazdar, and Minna, 2371; Graziano, Cowan, Carney, Bryke, Mitter, Johnson, Mark, Planas, Catino, Comis, and Poiesz, 2148; Knop, Carney, Chen, Cohen, and Minna, 3357

Carney, D. N., Cuttitta, F., Moody, T. W., and Minna, J. D. Selective Stimulation of Small Cell Lung Cancer Clonal Growth by Bombesin and Gastrin-releasing Peptide, 821

Carney, W. P. See Ho, Kato, Durda, Murray, Wolfe, Rabin, and Carney, 241

Carpenter, C. L. See Greenberg, Carpenter, and

Messing, 70
Carpenter, G. See Coffey, Goustin, Soderquist, Shipley, Wolfshohl, Carpenter, and Moses, 4590

Carper, S. W., Duffy, J. J., and Gerner, E. W. Heat Shock Proteins in Thermotolerance and Other Cellular Processes, 5249

Carpinelli, G. See Podo, Carpinelli, Di Vito, Giannini, Proietti, Fiers, Gresser, and Belardelli, 6481

Carr, B. I. Pleiotropic Drug Resistance in Hepatocytes Induced by Carcinogens Administere 1 to Rats, 5577

Carr, B. I., Rahbar, S., Doroshow, J. H., Blayney, D., Goldberg, D., Leong, L., and Asmeron, Y. Fetal Hemoglobin Gene Activation in a Phase II Study of 5,6-Dihydro-5-azacytidine for Bronchogenic Carcinoma, 4199

Carrasquillo, J. A. See Colcher, Esteban, Carrasquillo, Sugarbaker, Reynolds, Bryant, Larson, and Schlom, 1185, 4218; Eger, Covell, Carrasquillo, Abrams, Foon, Reynolds, Schroff, Morgan, Larson, and Weinstein, 3328; Keenan, Weinstein, Carrasquillo, Bunn, Reynolds, Foon, Smarte, Ghosh, Fejka, Larson, and Mulshine, 6093; Mulshine, Keenan, Carrasquillo, Walsh, Linnoila, Holton, Harwell, Larson, Bunn, and Weinstein, 3572

Carsana, R. See Formelli, Carsana, and Pollini, 5401

Carson, D. A. See Yamanaka, Kubota, and Carson, 1771

Carstensen, J. See Lundberg, Carstensen, and Rundquist, 1973

Carter, C. L. See Parry, Mulvihill, Miller, Berg, and Carter, 6814

Carter, T., James, C., Chan, E., and Greene, B. Induction of Integrated Adenovirus E1A and E1B Genes in Transformed Human Cells by

Phorbol Ester Tumor Promoters, 803 Carulli, N. See Ponz de Leon, Roncucci, di Donato, Sacchetti, Pezcoller, Annoni, Bertani, Re-

becchi, Balli, Galli, and Carulli, 305 Casazza, A. M. See Barbieri, Giuliani, Bordoni, Casazza, Geroni, Bellini, Suarato, Gioia, Penco,

and Arcamone, 4001

Case, D. C., Jr., Gams, R., Ervin, T. J., Boyd, M. A., and Oldham, F. B. Phase I-II Trial of High-Dose Epirubicin in Patients with Lymphoma, 6393

Case, N. See Hindenburg, Baker, Gleyzer, Stewart, Case, and Taub, 1421

Casero, R. A. See Porter, McManis, Casero, and Bergeron, 2821

Casero, R. A., Jr., Go, B., Theiss, H. W., Smith, J., Baylin, S. B., and Luk, G. D. Cytotoxic Response of the Relatively Difluoromethylornithine resistant Human Lung Tumor Cell Line NCI H157 to the Polyamine Analogue N1,N8-Bis(ethyl)spermidine, 3964

Cashmore, A. R. See Lin, Cashmore, Baker, Dreyer, Ernstoff, Marsh, Bertino, Whitfield, Delap, and Grillo-Lopez, 609

Casper, J. T. See Brodeur, Hayes, Green, Casper, Wasson, Wallach, and Seeger, 4248; Merritt, Casper, Lauer, and Reaman, 1724

Cass, C. E. See Burres and Cass, 5059
Cassidy, C. See Fanucchi, Walsh, Fleisher, Lokos, Williams, Cassidy, Vidal, Chou, Niedzwiecki, and Young, 3303

Cassidy, J. See Kerr, Kaye, Cassidy, Bradley, Rankin, Adams, Setanoians, Young, Forrest, Sou-kop, and Clavel, 6776

Castagna, M., Nuti, M., and Squartini, F. Mammary Cancer Antigen Recognized by Monoclo nal Antibody B72.3 in Apocrine Metaplasia of the Human Breast, 902

Castagnoli, M. N. See Chiabrando, Broggini, Castelli, Cozzi, Castagnoli, Donelli, Garattini, Giavazzi, and Fanelli, 988

Castegnaro, M., Bartsch, H., and Chernozemsky, I. Endemic Nephropathy and Urinary Tract Tu-mors in the Balkans, 3608, Meeting Report

Castelli, M. G. See Chiabrando, Broggini, Castelli, Cozzi, Castagnoli, Donelli, Garattini, Giavazzi, and Fanelli, 988

Castleden, W. M. See Ilett, David, Detchon, Castleden, and Kwa, 1466

Catapano, C. V., Broggini, M., Erba, E., Ponti, M., Mariani, L., Citti, L., and D'Incalci, M. In Vitro and in Vivo Methazolastone-induced DNA Damage and Repair in L-1210 Leukemia Sensitive and Resistant to Chloroethylnitrosoureas,

Cathcart, K. N. S. See Teicher, Crawford, Holden,

and Cathcart, 5036

Catino, J. J. See Graziano, Cowan, Carney, Bryke, Mitter, Johnson, Mark, Planas, Catino, Comis, and Poiesz, 2148

Cavenee, W. K. See Hansen and Cavenee, 5518 Cawker, M. D. See Brandes, Bogdanovic, Cawker, and LaBella 4025

Celniker, A. See Nagle, Ahmann, McDaniel, Paquin, Clark, and Celniker, 281

Center, M. S. See Marsh and Center, 5080 Ceriani, R. L. See Salinas, Wee, and Ceriani, 907 Ceriani, R. L., Blank, E. W., and Peterson, J. A. Experimental Immunotherapy of Human Breast Carcinomas Implanted in Nude Mice with a Mixture of Monoclonal Antibodies against Human Milk Fat Globule Components, 532

Cesarone, C. F. See De Flora, Camoirano, Romano, Astengo, Cesarone, and Millman, 4052 Chabner, B. A. See Kao-Shan, Fine, Whang-Peng,

Lee, and Chabner, 6278; Yeh, Occhipinti, Cowan, Chabner, and Myers, 5994 Chadwick, M. See Plowman, Harrison, Trader,

Griswold, Chadwick, McComish, Silveira, and Zaharko, 685

Chahwala, S. B. See Thompson, Chahwala, and Hickman, 2799

Chakrabarty, M. K. See Koff, Dunegan, Chakrabarty, Hampar, and Showalter, 1534

Chalbos, D., Haagensen, D., Parish, T., and Rochefort, H. Identification and Androgen Regulation of Two Proteins Released by T₄₇D Human Breast Cancer Cells, 2787

Chan, D. See Bakic, Chan, Freireich, Marton, and Zwelling, 6437

Chan, E. See Carter, James, Chan, and Greene,

803 Chan, P-K., Aldrich, M. B., and Yung, B. Y-M. Nucleolar Protein B23 Translocation after Dox-

orubicin Treatment in Murine Tumor Cells, Chaney, S. G. See Wyrick and Chaney, 4992

Chang, A. Y. C., and Keng, P. C. Potentiation of Radiation Cytotoxicity by Recombinant Interferons, a Phenomenon Associated with Increased Blockage at the G2-M Phase of the Cell Cycle, 4338

ng, B. K., Gutman, R., and Chou, T-C. Schedule-dependent Interaction of α-Difluoromethylornithine and cis-Diamminedichloroplatinum-(II) against Human and Hamster Pancreatic Cancer Cell Lines, 2247

Chang, C-C. See Kavanagh, Martin, El-Fouly, Trosko, Chang, and Rabinovitch, 6046

Chang, C-c., Trosko, J. E., El-Fouly, M. H., Gio-son-D'Ambrosio, R. E., and D'Ambrosio, S. M. Contact Insensitivity of a Subpopulation of Normal Human Fetal Kidney Epithelial Cells and of Human Carcinoma Cell Lines, 1634

Chang, C-H. See Barrueco, Jacobsen, Chang, Brockman, and Sirotnak, 700

Chang, C. K. See Kessel, Thompson, Musselman,

and Chang, 4642 Chang, K. S. S. See Wang, Vass, Gao, and Chang,

Chang, T-T., Gulati, S., Chou, T-C., Colvin, M., and Clarkson, B. Comparative Cytotoxicity of Various Drug Combinations for Human Leukemic Cells and Normal Hematopoietic Precursors, 119

Chantret, I., Chevalier, G., Dussaulx, E., and Zweibaum, A. A and H Blood Group Antigens as Markers of Sucrase-Isomaltase from the Enterocyte-like Differentiated Human Colon Carcinoma Cell Lines HT-29 and Caco-2, 1426

Chao, W-R. See Dawson, Chao, and Helmes, 6210 Chaplin, D. J., Olive, P. L., and Durand, R. E. Intermittent Blood Flow in a Murine Tumor: Radiobiological Effects, 597

Charamella, L. J. See Vassilev, Kanazirska, Charamella, Dimitrov, and Tien, 519 Charp, P. A. See Shoji, Girard, Charp, Koeffler,

Vogler, and Kuo, 6363 Charpin, C. See Pancino, Charpin, Calvo, Guille-

min, and Roseto, 4444

Chatterjee, A., Freeman, J. W., and Busch, H. Identification and Partial Characterization of a Mr. 40,000 Nucleolar Antigen Associated with Cell Proliferation, 1123; Identification and Partial Characterization of a Mr 105,000 Nucleolar Antigen Associated with Cell Proliferation, 6329

Chaudhry, Y. See Hamilton, Hyland, McAvinchey, Chaudhry, Hartka, Kim, Cichon, Floyd, Turjman, Kessie, Nair, and Dick, 1551

Chaudhuri, K. See Morgan, Garbo, Kreimer-Birn-baum, Keck, Chaudhuri, and Selman, 496 Chauvel, P. See Gioanni, Samson, Zanghellini, Mazeau, Ettore, Demard, Chauvel, Duplay,

Schneider, Laurent, and Lalanne, 4417 Chawla, R. K., Lawson, D. H., Sarma, P. R., Nixon, D. W., and Travis, J. Serum α-1 Proteinase Inhibitor in Advanced Cancer: Mass Variants and Functionally Inert Forms, 1179

Chemical Pathology Study Section See Barrett, 2514

Chen, B. D-M., Sapareto, S. A., and Chou, T-h. Induction of Prostaglandin Production by Hyperthermia in Murine Peritoneal Exudate Macrophages, 11

Chen, C. W. See Knop, Carney, Chen, Cohen, and Minna, 3357

Chen, F-M. See Epstein, Marder. Winter, Statho-

poulos, Chen, Parker, and Taylor, 830 Chen, J-K., Li, L., and Mioh, H. Differential Responsiveness of Normal and Simian Virus 40transformed BALB/c 3T3 Cells to Retinoic Acid: Rapid Enhancement of Epidermal Growth Factor Receptor Binding in a Simian Virus 40-3T3 Variant, 4995

Chen, J-s. See Zhu, Zhang, Hu, Xiao, Chen, Xu,

Fremy, and Chu, 1848 Chen, K. See Heo, Whiteside, Johnson, Chen, Barnes, and Herberman, 6353

Chen, L. T. See Lu, Hangoc, Oliff, Chen, Shen, and Broxmeyer, 4184

Chen, S. See Deng, Lu, Chen, Miao, Lu, Li, Cai, Xu, E, and Liu, 3195

Chen, T-R. See Park, Oie, Sugarbaker, Henslee, Chen, Johnson, and Gazdar, 6710

Chen, Z. See Fingert, Chen, Mizrahi, Gajewski, Bamberg, and Kradin, 3824

Chenevix-Trench, G. See Ely, Leftwich, Chenevix-Trench, Hall, and Westin, 4595 Cheng, K-H., Hui, S. W., and Lepock, J. R. Pro-

tection of the Membrane Calcium Adenosine Triphosphatase by Cholesterol from Thermal Inactivation, 1255

Cheng, Y-c. See Ferguson and Cheng, 433; Nutter, Grill, Li, Tan, and Cheng, 4407 Cheresh, D. A. See Mujoo, Cheresh, Yang, and

Reisfeld, 1098

Chernozemsky, I. See Castegnaro, Bartsch, and Chernozemsky, 3608

Chervenak, R., and Yamashita, R. Correspondence re: Ryoichi Yamashita et al. Prevention of Growth of Metastases in Rat Liver by Perioperative Immunoactivation. Cancer Res., 46: 3138-3141, 1986, page 2748, Letter to the Editor and Reply

Chesa, P. G. See Rettig, Spengler, Chesa, Old, and Biedler, 1383

Cheung, N-K. V. See Heiner, Miraldi, Kallick, Makley, Neely, Smith-Mensah, and Cheung, 5377; Munn and Cheung, 6600
Cheung, R. J. See Yoo, Cheung, Patten, Wade,

and Yang, 3378

Chevalier, G. See Chantret, Chevalier, Dussaulx, and Zweibaum, 1426

Chiabrando, C., Broggini, M., Castelli, M. G., Cozzi, E., Castagnoli, M. N., Donelli, M. G., Garattini, S., Giavazzi, R., and Fanelli, R. Prostaglandin and Thromboxane Synthesis by M5076 Ovarian Reticulosarcoma during Growth: Effects of a Thromboxane Synthetase Inhibitor, 988

Chiang, H. See Ho, Chiang, Li, Yuan, and Ng, 3220

Chiba, I., Oikawa, T., Naiki, M., Takimoto, M., Miyoshi, I., Mizuno, S., Yamashina, K., Yama-giwa, S., and Kobayashi, H. Enhanced Immunogenicity of the Cultured Rat Fibrosarcoma KMT-17 by Cultivation in a Low Concentration of Fetal Calf Serum, 1815

Chida, K. See Hashiba, Fukushima, Chida, and Kuroki, 5031

Chilvers, C. See Coombes, Powles, Easton, Chil-

vers, Ford, Smith, McKinna, White, Bradbeer, Yarnold, Nash, Bettelheim, Dowsett, Gazet, and Investigators of the Collaborative Breast Cancer Project, 2494

Chitambar, C. R., and Zivkovic, Z. Uptake of Gallium-67 by Human Leukemic Cells: Demonstration of Transferrin Receptor-dependent and Transferrin-independent Mechanisms, 3929 Chiu, S-m. See Ramakrishnan, Chiu, and Oleinick,

Cho, K. R. See Nelson, Cho, Hsiang, Liu, and

Coffey, 3246 Cho-Chung, Y. S. See Clair, Miller, and Cho-

Chung, 5290; Øgreid, Cho-Chung, Ekanger, Vintermyr, Haavik, and Døskeland, 2576

Choi, E. K. See Bennett, Sinkule, Schilsky, Senekiian, and Choi, 1952

Chou, J. Y., and Yeoh, G. C. T. Tyrosine Aminotransferase Gene Expression in a Temperaturesensitive Adult Rat Liver Cell Line, 5415

Chou, T. See Shu, Chou, and Rosenberg, 1354 Chou, T-C. See Chang, Gulati, Chou, Colvin, and Clarkson, 119; Chang, Gutman, and Chou, 2247; Fanucchi, Kinahan, Samuels, Hancock, Chou, Niedzwiecki, Farag, Vidal, DeGraw, Sternberg, Sirotnak, and Young, 2334; Fanuc-chi, Walsh, Fleisher, Lokos, Williams, Cassidy, Vidal, Chou, Niedzwiecki, and Young 3303

Chou, T-h. See Chen, Sapareto, and Chou, 11 Chrisp, C. E. See Wollner, Knutsen, Ullrich, Chrisp, Juni, Andrews, Tuscan, Stetson, and

Ensminger, 3285

Christian, B. J., Loretz, L. J., Oberley, T. D., and Reznikoff, C. A. Characterization of Human Uroepithelial Cells Immortalized *in Vitro* by Simian Virus 40, 6066

Christophidis, N. See Cosolo and Christophidis,

Chu, B. M. See Rubin, Chu, and Arnstein, 486 Chu, F. S. See Zhu, Zhang, Hu, Xiao, Chen, Xu,

Fremy, and Chu, 1848 Chuang, L-Y. See Yeh, Tsai, Chuang, Yeh, Tsai, Florine, and Tam, 896

Chubb, D. See Stevens, Hickman, Langdon, Chubb, Vickers, Stone, Baig, Goddard, Gibson, Slack, Newton, Lunt, Fizames, and Lavelle, 5846

Chun, M., and Hoffmann, M. K. Combination Immunotherapy of Cancer in a Mouse Model: Synergism between Tumor Necrosis Factor and Other Defense Systems, 115

Chung, F-L. See Foiles, Chung, and Hecht, 360 Cichon, P. See Hamilton, Hyland, McAvinchey, Chaudhry, Hartka, Kim, Cichon, Floyd, Turj-man, Kessie, Nair, and Dick, 1551

Cillo, C., Dick, J. E., Ling, V., and Hill, R. P. Generation of Drug-resistant Variants in Metastatic B16 Mouse Melanoma Cell Lines, 2604 Cincotta, L. See Ara, Aprille, Malis, Kane, Cin-

cotta, Foley, Bonventre, and Oseroff, 6580 Ciobanu, N. See Marcus, Dutcher, Paietta, Ciobanu, Strauman, Wiernik, Hutner, Frank, and

Baker, 4208 Cirtain, M. C. See Beck, Cirtain, Danks, Felsted, Safa, Wolverton, Suttle, and Trent, 5455

Citti, L. See Catapano, Broggini, Erba, Ponti, Mar-iani, Citti, and D'Incalci, 4884

Clair, T., Miller, W. R., and Cho-Chung, Y. S. Prognostic Significance of the Expression of a ras Protein with a Molecular Weight of 21,000 by Human Breast Cancer, 5290

Clark, B. A. See Ostrow, Manias, Clark, Okagaki, Twiggs, and Faras, 649

Clark, G. M. See Arteaga, Forseth, Clark, and Von Hoff, 6248; Dressler, Seamer, Owens, Clark, and McGuire, 5294

Clark, V. A. See Nagle, Ahmann, McDaniel, Pa-quin, Clark, and Celniker, 281 Clark, W. C. See Oldfield, Clark, Dedrick, Egorin,

Austin, DeVroom, Joyce, and Doppman, 1962 Clark, W. M., Jr. See Thurin, Thurin, Kimoto, Herlyn, Lubeck, Elder, Smereczynska, Karlsson, Clark, Steplewski, and Koprowski, 1229

Clarke, B., J., Liao, S.K., Leeds, C., Soamboons-rup, P., and Neame, P. B. Distribution of a Hematopoietic-specific Differentiation Antigen of K562 Cells in the Human Myeloid and Lymphoid Cell Lineages, 4254

Clarkson, B. D. See Chang, Gulati, Chou, Colvin, and Clarkson, 119; Wisniewski, Strife, Atzpo-dien, and Clarkson, 4788

Clavel, M. See Kerr, Kaye, Cassidy, Bradley, Rankin, Adams, Setanoians, Young, Forrest, Soukop, and Clavel, 6776

Clayman, R. V. See Bear, Clayman, Elbers, Limas, Wang, Stone, Gebhard, Prigge, and Palmer,

Clayton, M. See Tonini, Radzioch, Gronberg, Clayton, Blasi, Benetton, and Varesio, 4544 Cleary, K. R. See Irimura, Ota, and Cleary, 881;

Yamori, Kimura, Stewart, Ota, Cleary, and Irimura, 2741

Cleary, S. M. See Zimm, Cleary Lucas, Weiss, Markman, Andrews, Schiefer, Kim, Horton, and Howell, 1712

Cleaver, J. E. Relative Importance of Incision and Polymerase Activities in Determining the Distribution of Damaged Sites That Are Mended in Xeroderma Pigmentosum Group C Cells, 2393

Cleveland, L. See Doyle, Koths, Brindley, Fong, Halenbeck, Ransom, Pomato, Cleveland, Mc-Cabe, and Hanna, 914

Cline, M. J. See Zhou, Battifora, Yokota, Yamamoto, and Cline, 6123

Cochran, A. J. See Hoon, Bowker, and Cochran, 1529; Hoon, Korn, and Cochran, 1740 Cockett, A. T. K. See Lee, Erturk, Mayer, and

Cockett, 5021

Coderre, J. A., Glass, J. D., Fairchild, R. G., Roy, U., Cohen, S., and Fand, I. Selective Targeting of Boronophenylalanine to Melanoma in BALB/c Mice for Neutron Capture Therapy,

Coetzee, M. See Francavilla, Ove, Polimeno, Coetzee, Makowka, Rose, Van Thiel, and Starzl,

Coffey, D. S. See Alexander, Nelson, and Coffey, 2403; Nelson, Cho, Hsiang, Liu, and Coffey, 3246

Offey, R. J., Jr., Goustin, A. S., Soderquist, A. M., Shipley, G. D., Wolfshohl, J., Carpenter, G., and Moses, H. L. Transforming Growth Factor and β Expression in Human Colon Cancer Lines: Implications for an Autocrine Model, 4590

Cohen, A. S. See Egorin, Zuhowski, Cohen, Geel-

haar, Callery, and Van Echo, 6142

Cohen, J. D., and Robins, H. I. Hyperthermic

Enhancement of cis-Diammine-1,1-cyclobutane Dicarboxylate Platinum(II) Cytotoxicity in Human Leukemia Cells in Vitro, 4335

Cohen, J. S. See Knop. Carney, Chen, Cohen, and Minna, 3357

Cohen, R. See Rabinowich, Cohen, Bruderman, Steiner, and Klajman, 173

Cohen, S. A. See Coderre, Glass, Fairchild, Roy, Cohen, and Fand, 6377; Fand, Sharkey, Primus, Cohen, and Goldenberg, 2177 Cohen, S. M. See Birt, Julius, Hasegawa, St. John,

and Cohen, 1244

Colas, C. See Auclair, Pierre, Voisin, Pepin, Cros, Colas, Saucier, Verschuere, Gros, and Paoletti, 6254

Colborn, D. See Rinehart, Young, Laforge, Colborn, and Neidhart, 2481

Colburn, N. H., Farber, E., Weinstein, I. B., Dia-mond, L., and Slaga, T. J. American Cancer Society Workshop Conference on Tumor Promotion and Antipromotion, 5509, Meeting Re-

port

Colby, E. See Ball, Keefe, and Colby, 6556

Colcher, D. See Ohuchi, Wunderlich, Fujita,

Colcher, Muraro, Nose, and Schlom, 3565

Concential J. A. Sugar-

Colcher, D., Esteban, J., Carrasquillo, J. A., Sugar-baker, P., Reynolds, J. C., Bryant, G., Larson, S. M., and Schlom, J. Complementation of Intracavitary and Intravenous Administration of a Monoclonal Antibody (B72.3) in Patients with Carcinora, 4218; Quantitative Analyses of Selective Radiolabeled Monoclonal Antibody Localization in Metastatic Lesions of Colorectal Cancer Patients, 1185

Cole, P. See Yu, Henderson, Austin, Delzell, Cole, Grufferman, Levine, Morrison, and Stolley, 654 Cole, S. P. C. See Mirski, Gerlach, and Cole, 2594 Coleman, C. N., Halsey, J., Cox, R. S., Hirst, V. K., Blaschke, T., Howes, A. E., Wasserman, T. H., Urtasun, R. C., Pajak, T., Hancock, S., Phillips, T. L., and Noll, L. Relationship between the Neurotoxicity of the Hypoxic Cell Radiosensitizer SR 2508 and the Pharmacokinetic Pro-

Coleman, K. See Lloyd, Coleman, Fields, and Nath, 1087

Collard, J. G., Schijven, J. F., and Roos, E. Invasive and Metastatic Potential Induced by ras-Transfection into Mouse BW5147 T-Lymphoma

Collard, J. G., van de Poll, M., Scheffer, A., Roos, E., Hopman, A. H. M., Geurts van Kessel, A. H. M., and van Dongen, J. J. M. Location of Genes Involved in Invasion and Metastasis on Human Chromosome 7, 6666

Colletta, G. See Fontana, Del Vecchio, Racioppi, Carbone, Pinto, Colletta, and Zappacosta, 4178 ns, C. See Thompson, Lee, Cox, Lindgren,

Collins, Neraas, Dennin, and Fefer, 4202 Collins, D., and Huang, L. Cytotoxicity of Diphtheria Toxin A Fragment to Toxin-resistant Murine Cells Delivered by pH-sensitive Immunoliposomes, 735

Collins, J. C. See Brenner, Anthony, Halter, Harris, Collins, and Hande, 3259 Collins, J. M. See Park, Kramer, Steinberg, Car-

michael, Collins, Minna, and Gazdar, 5875 Collins, S. J. See Andrews, Singer, and Collins, 6620

Coló, A. See Torelli, Venturelli, Coló, Zanni, Selleri, Moretti, Calabretta, and Torelli, 5266

Colomer, D., Vives-Corrons, J. L., Pujades, A., and Bartrons, R. Control of Phosphofructokinase by Fructose 2,6-Bisphosphate in B-Lymphocytes and B-Chronic Lymphocytic Leukemia Cells,

Colston, K. See Berger, Wilson, McClelland, Colston, Haussler, Pike, and Coombes, 6793 Colton, F. See Liehr, Purdy, Baran, Nutting, Col-ton, Randerath, and Randerath, 2583

Columbano, A., Ledda-Columbano, G. M., Lee, G., Rajalakshmi, S., and Sarma, D. S. R. Inability of Mitogen-induced Liver Hyperplasia to Support the Induction of Enzyme-altered Islands Induced by Liver Carcinogens, 5557

Colvin, M. See Chang, Gulati, Chou, Colvin, and Clarkson, 119

Colvin, O. M. See Arndt, Colvin, Balis, Lester, Johnson, and Poplack, 5932; Peters, Henner, Grochow, Olsen, Edwards, Stanbuck, Stuart, Gockerman, Moore, Bast, Seigler, and Colvin,

Comeau, R. D. See Brown, Comeau, Jones, Liberatore, Neacy, Sands, and Gallagher, 1149

Comis, R. L. See Graziano, Cowan, Carney, Bryke, Mitter, Johnson, Mark, Planas, Catino, Comis, and Poiesz, 2148

Compton, J. M. See Reale, Griffin, Compton, Graham, Townes, and Bogden, 3199 Condon, M. E. See Hamburger, Lurie, and Con-

don, 5612

Conley, B. A. See Egorin, Conley, Forrest, Zu-howski, Sinibaldi, and Van Echo, 6104 Conney, A. H. See Smart, Huang, Han, Kaplan,

Focella, and Conney, 6633 Conran, P. B. See Branstetter, Stoner, Schut, Sen-

itzer, Conran, and Goldblatt, 348 Conte, P. F. See Alama, Nicolin, Conte, and Dre-

winko, 1892 Conti, C. J. See Kruszewski, Conti, and Di-Giovanni, 3783; Miller, Viaje, Aldaz, Conti, and

Slaga, 1935 Conway, J. G., Neptun, D. A., Garvey, L. K., and Popp, J. A. Role of Fatty Acyl Coenzyme A Oxidase in the Efflux of Oxidized Glutathione from Perfused Livers of Rats Treated with the Peroxisome Proliferator Nafenopin, 4795

Conway, K. See Sen, Conway, and Costa, 2142 Cook, W. S., Jr. See Halldin, Cook, Kawashima, Crutcher, and Fukuyama, 636

Cool, B. L. See Vollberg, Cool, and Sirover, 123 es, R. C. See Barrett-Lee, Travers, Mc-Clelland, Luqmani, and Coombes, 6653; Berger, Wilson, McClelland, Colston, Haussler, Pike, and Coombes, 6793; Dowsett, Goss, Powles, Hutchinson, Brodie, Jeffcoate, and Coombes, 1957; McClelland, Berger, Wilson, Powles, Trott, Easton, Gazet, and Coombes, 6118

Coombes, R. C., Powles, T. J., Easton, D., Chilvers, C., Ford, H. T., Smith, I. E., McKinna, A., White, H., Bradbeer, J., Yarnold, J., Nash, A., Bettel-heim, R., Dowsett, M., Gazet, J-C., and Investigators of the Collaborative Breast Cancer Project Adjuvant Aminoglutethimide Therapy for Postmenopausal Patients with Primary Breast Cancer. 2494

Cooper, H. L. See Zelikoff, Garte, Belman, Feuerstein, and Cooper, 329

Cooper, H., L., Bhattacharya, B., Bassin, R. H., and Salomon, D. S. Suppression of Synthesis and Utilization of Tropomyosin in Mouse and Rat Fibroblasts by Transforming Growth Factor

a: A P. Jaway in Oncogene Action, 4493 Corallini, A., Pagnani, M., Viadana, P., Camellin, P., Caputo, A., Reschiglian, P., Rossi, S., Altavilla, G., Selvatici, R., and Barbanti-Brodano, G. Induction of Malignant Subcutaneous Sarcomas in Hamsters by a Recombinant DNA Containing BK Virus Early Region and the Activated

Human c-Harvey-ras Oncogene, 6671 Corbett, R. J. T., Nunnally, R. L., Giovanella, B. , and Antich, P. P. Characterization of the 31P Nuclear Magnetic Resonance Spectrum from Human Melanoma Tumors Implanted in Nude Mice, 5065

Corbett. T. H. See Brooks, Horwitz, Odden, and Corbett, 4623; Evelhoch, Keller, and Corbett, 3396; Pazdur, Redman, Corbett, Phillips, and Baker, 4213

Cornelisse, C. J. See Rodenburg, Ploem-Zaaijer, Cornelisse, Mesker, Hermans, Heintz, Ploem, and Fleuren, 3938

Cornelisse, C. J. See van Dierendonck, Cornelisse, van der Linden, van Putten, and van de Velde,

Cornelius, J. See Normann and Cornelius, 2067 Corwin, S. P. See Bugelski, Corwin, North, Kirsh, Nicolson, and Poste, 4141

Cory, J. G. See Weckbecker and Cory, 2218; Weckbecker, Weckbecker, Lien, and Cory, 975 Cosolo, W., and Christophidis, N. Blood-Brain Barrier Disruption and Methotrexate in the Treatment of a Readily Transplantable Intracerebral Osteogenic Sarcoma of Rats, 6225

Cossman, J. See Kessler, Heilman, Cossman, Ma-guire, and Thorgeirsson, 527; Raffeld, Wright, Lipford, Cossman, Longo, Bakhshi, and Korsmeyer, 2537

Costa, M. See Sen, Conway, and Costa, 2142 Costanzi, J. J. See Gupta and Costanzi, 2407; Gupta, Rajaraman, Gadson, and Costanzi, 5194 Coursaget, P. See Hall, Inskip, Loik, Tomatis, Day, O'Conor, Bosch, Muir, Parkin, Muñoz, Greenwood, Whittle, Ryder, Oldfield, N'jie,

Smith, and Coursaget, 5782 Courtenay-Luck, N. S., Epenetos, A. A., Winearls, C. G., and Ritter, M. A. Preexisting Human Anti-Murine Immunoglobulin Reactivity Due to Polyclonal Rheumatoid Factors, 4520

Covell, D. G. See Eger, Covell, Carrasquillo, Abrams, Foon, Reynolds, Schroff, Morgan, Larson, and Weinstein, 3328

Covey, D. F. See Heston, Yang, Pliner, Russo, and Covey, 3627

Covey, J. M. See Markovits, Pommier, Kerrigan, Covey, Tilchen, and Kohn, 2050

Cowan, B. Y. See Graziano, Cowan, Carney, Bryke, Mitter, Johnson, Mark, Planas, Catino, Comis, and Poiesz, 2148

Cowan, K. H. See Fairchild, Ivy, Kao-Shan, Whang-Peng, Rosen, Israel, Melera, Cowan, and Goldsmith, 5141; Yeh, Occhipinti, Cowan, Chabner, and Myers, 5994

Cowled, P. A., Mackenzie, L., and Forbes, I. J. Pharmacological Modulation of Photodynamic Therapy with Hematoporphyrin Derivative and

Cox, R. S. See Coleman, Halsey, Cox, Hirst, Blaschke, Howes, Wasserman, Urtasun, Pajak, Hancock, Phillips, and Noll, 319

Cox, T. C. See Goodman, Yen, Cox, and Crowley,

Cox, W. W. See Thompson, Lee, Cox, Lind ren,

Collins, Neraas, Dennin, and Fefer, 4202

Cozzi, E. See Chiabrando, Broggini, Castelli, Cozzi, Castagnoli, Donelli, Garattini, Giavazzi, and Fanelli. 988

Craig, J. C. See Gruenke, Wrensch, Petrakis, Miike, Ernster, and Craig, 5483

Craighead, J. E. See Mackay, Tracy, and Craighead, 5461

Crandall, C. A. See Levine, and Crandall, 4278 Craven, P. A., and DeRubertis, F. R. Subcellular Distribution of Protein Kinase C in Rat Colonic Enithelial Cells with Different Proliferative Activities, 3434

Crawford, E. D. See Ahmann, Crawford, Kreis, Levasseur, and the Aminoglutethimide Study Group, 4736

Crawford, J. M. See Teicher, Crawford, Holden, and Cathcart, 5036

Creasey, A. A., Doyle, L. V., Reynolds, M. T., Jung, T., Lin, L. S., and Vitt, C. R. Biological Effects of Recombinant Human Tumor Necrosis Factor and Its Novel Muteins on Tumor and Normal Cell Lines, 145

Crickard, K. See Niedbala, Madiyalakan, Matta, Crickard, Sharma, and Bernacki, 4634 Crommelia, D. J. A. See Storm, Roerdink, Steer-

enberg, de Jong, and Crommelin, 3366 Crooke, S. T. See Mattern, Mong, Bartus, Mira-

belli, Crooke, and Johnson, 1793 Croop, J. M., Guild, B. C., Gros, P., and Housman, D. E. Genetics of Multidrug Resistance: Relationship of a Cloned Gene to the Complete Multidrug Resistance Phenotype, 5982

Cros. S. See Auclair, Pierre, Voisin, Pepin, Cros. Colas, Saucier, Verschuere, Gros, and Paoletti, 6254

Cross, D. S. See Heggie, Sommadossi, Cross, Huster, and Diasio, 2203

Crouch, E. C., Stone, K. R., Bloch, M., and Mc-Divitt, R. W. Heterogeneity in the Production of Collagens and Fibronectin by Morphologically Distinct Clones of a Human Tumor Cell Line: Evidence for Intratumoral Diversity in Matrix Protein Biosynthesis, 6086

Crowley, J. See Goodman, Yen, Cox, and Crowley,

Crowther, M. E. See Ward, Mather, Hawkins, Crowther, Shepherd, Granowska, Britton, and Slevin, 4719

Crum, E. D. Specific Induction of Local Antitumor Effector Cells Mediated in Vivo by the Circulating Lymphocyte Pool, 5584

Crutcher, W. A. See Halldin, Cook, Kawashima, Crutcher, and Fukuyama, 636

Cruz, M. See Ocadiz, Sauceda, Cruz, Graef, and

Gariglio, 4173 Cucchi, C. A. See Rosowsky, Wright, Cucchi, Fla-tow, Trites, Teicher, and Frei, 5913; Teicher, Holden, Kelley, Shea, Cucchi, Rosowsky, Henner, and Frei, 388

Cullen, J. M., Ruebner, B. H., Hsieh, L. S., Hyde, D. M., and Hsieh, D. P. Carcinogenicity of Di-etary Aflatoxin M₁ in Male Fischer Rats Compared to Aflatoxin B1, 1913

nmings, K. B. See Ruzicka, Schmid, Groveman,

Cummings, and Borden, 4582
Cummins, T. J., and Smith, R. E. Association of Persistent Synthesis of Viral DNA with Macrophage Accessory Cell Dysfunction Induced by Avian Retrovirus Myeloblastosis-associated Virus of Subgroup B Inducing Osteopetrosis in Chickens, 6033

Cundiff, K. C. See Ethier and Cundiff, 5316 Currie, D. D. See Garte, Currie, and Troll, 3159 Custer, M. C. See Lotze, Custer, Sharrow, Rubin,

Nelson, and Rosenberg, 2188 Custer, R. P. See Sorof and Custer, 210

Cuttitta, F. See Carney, Cuttitta, Moody, and Minna, 821; Doyle, Cuttitta, Mulshine, Bunn, and Minna, 5009

Cuttner, J. See Paciucci, Keaveney, Cuttner, and Holland, 5234 Cysyk, R. L. See Hiraga, Klubes, Owens, Cysyk,

Czerniak, B., Herz, F., Wersto, R. P., and Koss, L. G. Modification of Ha-rzs Oncogene p21 Expression and Cell Cycle Progression in the Human Colonic Cancer Cell Line HT-29, 2826

da Cunha, M. F., Meistrich, M. L., and Nader, S. Absence of Testicular Protection by a Gonadotropin-releasing Hormone Analogue against Cy-clophosphamide-induced Testicular Cytotoxicity in the Mouse, 1093

Daggett, A. S. See Sherwood, Daggett, and Schimke, 3584

Dahiya, R., Dudeja, P. K., and Brasitus, T. A. Premalignant Alterations in the Glycosphingolipid Composition of Colonic Epithelial Cells of

Rats Treated with 1,2-Dimethylhydrazine, 1031 Dahlberg, W. K. See Little, Nove, Dahlberg, Troilo, Nichols, and Strong, 4229

Daling, J. R. See McTiernan, Weiss, and Daling,

Dalton, B. J. See Koestler, Johnson, Rieman, Dalton, Greig, and Poste, 2804
D'Ambrosio, S. M. See Chang, Trosko, El-Fouly,

Gibson-D'Ambrosio, and D'Ambrosio, 1634

D'Ambrosio, S. M., Samuel, M. J., Dutta-Choud-hury, T. A., and Wani, A. A. O⁶-Methylguanine-DNA Methyltransferase in Human Fetal Tissues: Fetal and Maternal Factors, 51

Danforth, D. N., Jr. See Swain, Sorace, Bagley, Danforth, Bader, Wesley, Steinberg, and Lippman. 3889

Daniel, C. W., Silberstein, G. B., and Strickland, P. Direct Action of 17β-Estradiol on Mouse Mammary Ducts Analyzed by Sustained Release Implants and Steroid Autoradiography, 6052

Danish Breast Cancer Cooperative Group See Thorpe, Rose, Rasmussen, Mouridsen, Bayer, and Keiding, 6126

Danks, M. K. See Beck, Cirtain, Danks, Felsted. Safa, Wolverton, Suttle, and Trent, 5455

Danks, M. K., Yalowich, J. C., and Beck, W. T.

Atypical Multiple Drug Resistance in a Human Leukemic Cell Line Selected for Resistance to Teniposide (VM-26), 1297

Dansby, L. See Bowdon, Waud, Wheeler, Hain, Dansby, and Temple, 1621

Dantis, E. See Tan, Hancock, Steinherz, Bacha, Steinherz, Luks, Winick, Meyers, Mondora, Dantis, Niedzwiecki, and Stevens, 2990

Darbre, P. D., and King, R. J. B. Differential Effects of Steroid Hormones on Parameters of

Cell Growth, 2937

Darnowski, J. W., Holdridge, C., and Handschumacher, R. E. Concentrative Uridine Transport by Murine Splenocytes: Kinetics, Substrate Specificity, and Sodium Dependency, 2614

Darzynkiewicz, Z. See Kunicka, Darzynkiewicz, and Melamed, 3942; Traganos, Bueti, Darzyn-

and Prenamed, 3942. I ragantos, Buett, Darzyn-kiewicz, and Melamed, 424

Das, C., and Langone, J. J. Correlation between
Antitumor Activity of Protein A and *in Vivo*Formation of Defined High Molecular Weight Complexes with Immunoglobulin G in BALB/c

Das, M. See Basu, Murthy, Rodeck, Herlyn, Mattes, and Das, 2531 Das, M., Khan, W. A., Asokan, P., Bickers, D. R., and Mukhtar, H. Inhibition of Polycyclic Aromatic Hydrocarbon-DNA Adduct Formation in Epidermis and Lungs of SENCAR Mice by Nat-

urally Occurring Plant Phenols, 767

Das, M., Mukhtar, H., Bik, D. P., and Bickers, D.

R. Inhibition of Epidermal Xenobiotic Metabolism in SENCAR Mice by Naturally Occurring Plant Phenols, 760

Dasdia, T. See Capranico, Riva, Tinelli, Dasdia,

and Zunino, 3752

Dauchy, R. T. See Richtsmeier, Dauchy, and Sauer, 5230; Sauer and Dauchy, 1065, 1756

Dauterman, W. See Rudo, Meyers, Dauterman, and Langenbach, 5861 Dautigny, N. See Monet, Thomas, Dautigny, Brami, and Bader, 5116

Davčeva, B. See Kajiji, Davčeva, and Quaranta,

Davey, F. R. See Graziano, Lehr, Merl, Ehrlich, ore, Hallinan, Hubbell, Davey, Vournakis, and Poiesz, 2468

Daviaud, D. See Simon-Assmann, Bouziges, Daviaud, Haffen, and Kedinger, 4478 David, B. M. See Ilett, David, Detchon, Castleden, and Kwa. 1466

Davie, J. R., Delcuve, G. P., Nickel, B. E., Moirier, R., and Bailey, G. Reduced Levels of Histones H1° and H1b, and Unaltered Content of Methvlated DNA in Rainbow Trout Henatocellular

Carcinoma Chromatin, 5407
Davies, R. J., Weidema, W. F., Sandle, G. I., Palmer, L., Deschner, E. E., and DeCosse, J. J. Sodium Transport in a Mouse Model of Colonic Carcinogenesis, 4646

Davignon, D. See Weltman, Pedroso, Johnson,

Davignon, Fast, and Leone, 5552 Davis, G. L. See Brown, Davis, Saltzgaber-Muller, Simon, Ho, Shaw, Stone, Sands, and Moore,

Davis, S. See Haagensen, Metzgar, Sawlivich, Swenson, Davis, Newman, Zamcheck, Wells, and Hansen, 5606

Dawson, M. I., Chao, W-R., and Helmes, C. T. Inhibition by Retinoids of Anthralin-induced Mouse Epidermal Ornithine Decarboxylase Activity and Anthralin-promoted Skin Tumor Formation, 6210

Day, N. E. See Hall, Inskip, Loik, Tomatis, Day, O'Conor, Bosch, Muir, Parkin, Muñoz, Greenwood, Whittle, Ryder, Oldfield, N'jie, Smith, and Coursaget, 5782

Day, R., III See Sariban, Kohn, Zlotogorski, Laurent, D'Incalci, Day, Smith, Kornblith, and Erickson, 3988

Dean, C. J. See Tilby, Styles, and Dean, 1542 Dean, S. W. See Schein, Green, Dean, and Mc-Pherson, 696

De Angeli, M. T. See Russo, Taningher, Pala, Pisano, Pedemonte, De Angeli, Carlone, Santi, and Parodi, 2866

DeArmond, S. J. See Rutka, Giblin, Apodaca, DeArmond, Stern, and Rosenblum, 3515

Deas, M. A. See Jetten, Anderson, Deas, Kagechika, Lotan, Rearick, and Shudo, 3523 DeBlasio, A. See Tsuda, Kim, Siskind, DeBlasio,

Schwab, Ershler, and Weksler, 3097 de Boer, M. See de Korte, Haverkort, de Boer, van

Gennip, and Roos, 1841

de Bruin, P. A. F., Griffioen, G., Verspaget, H. W., Verheijen, J. H., and Lamers, C. B. H. W. Plasminogen Activators and Tumor Development in the Human Colon: Activity Levels in Normal Mucosa, Adenomatous Polyps, and Adenocarcinomas, 4654

DeClerck, Y. A. See Bogenmann, Moghadam,

DeClerck, and Mock, 3808
DeClerck, Y. A., Bomann, E. T., Spengler, B. A., and Biedler, J. L. Differential Collagen Biosynthesis by Human Neuroblastoma Cell Variants, 6505

DeCosse, J. J. See Davies, Weidema, Sandle, Palmer, Deschner, and DeCosse, 4646

Dedrick, R. L. See Oldfield, Clark, Dedrick, Egorin, Austin, DeVroom, Joyce, and Doppman, 1962

Deen, D. F. See Hunter, Deen, and Marton, 5270 De Flora, S., Camoirano, A., Romano, M., Astengo, M., Cesarone, C. F., and Millman, I. Metabolism of Mutagens and Carcinogens in Woodchuck Liver and Its Relationship with Hepatitis Virus Infection, 4052

De Flora, S., Petruzzelli, S., Camoirano, A., Ben-nicelli, C., Romano, M., Rindi, M., Ghelarducci, L., and Giuntini, C. Pulmonary Metabolism of Mutagens and Its Relationship with Lung Cancer and Smoking Habits, 4740

DeFloria, M. C. See Rice, Weyand, Geddie, De-

Floria, and LaVoie, 6166

DeGala, G. See Yen, Forbes, DeGala, and Fishbaugh, 129

DeGraff, W. G. See Carmichael, DeGraff, Gazdar, Minna, and Mitchell, 936, 943

DeGraw, J. I. See Fanucchi, Kinahan, Samuels, Hancock, Chou, Niedzwiecki, Farag, Vidal, DeGraw, Sternberg, Sirotnak, and Young, 2334 de Jong, W. H. See Storm, Roerdink, Steerenberg,

de Jong, and Crommelin, 3366 DeKoning, T. F. See Li, DeKoning, and Wallace, 5894

de Korte, D., Haverkort, W. A., de Boer, M., van Gennip, A. H., and Roos, D. Imbalance in the Nucleotide Pools of Myeloid Leukemia Cells

and HL-60 Cells: Correlation with Cell-Cycle Phase, Proliferation, Differentiation, and Trans formation, 1841 de Last, S. W. See van Zoelen, van Rooijen, van

Oostwaard, and de Laat, 1582

Delap, R. See Lin, Cashmore, Baker, Dreyer, Ernstoff, Marsh, Bertino, Whitfield, Delap, and Grillo-Lopez, 609

Delclos, K. B., Walker, R. P., Dooley, K. L., Fu, P. P., and Kadlubar, F. F. Carcinogen-DNA Adduct Formation in the Lungs and Livers of Pre-weanling CD-1 Male Mice following Administration of [3H]-6-Nitrochrysene, [3H]-6-Aminochrysene, and [3H]-1,6-Dinitropyrene, 6272

Delcuve, G. P. See Davie, Delcuve, Nickel, Moirier, and Bailey, 5407
DeLeo, A. B. See Palladino, Srivastava, Oettgen,

and DeLeo, 5074

DeLeo, V. See Yang, DeLeo, and Santella, 2451 Deli, E. See Kiss, Deli, Shoji, Koeffler, Pettit,

Vogler, and Kuo, 1302
Delic, J. I., Harwood, J. R., and Stanley, J. A. Time Dependence for the Protective Effect of Androgen from Procarbazine-induced Damage to Rat Spermatogenesis, 1344

Dell, A. See Laferté, Fukuda, Fukuda, Dell. and Dennis, 150

Dellagi, K., Lipinski, M., Paulin, D., Portier, M. M., Lenoir, G. M., and Brouet, J. C. Character-ization of Intermediate Filaments Expressed by Ewing Tumor Cell Lines, 1170

Della Porta, G. See Borrello, Pierotti, Bongarzone, Donghi, Mondellini, and Della Porta, 75; Dra

gani, Manenti, Della Porta, and Weinstein, 795
Dell'Aquila, M. L., Nguyen, H. T., Herald, C. L.,
Pettit, G. R., and Blumberg, P. M. Inhibition by
Bryostatin 1 of the Phorbol Ester-induced Blockage of Differentiation in Hexamethylene Bisacetamide-treated Friend Erythroleukemia Cells, 6006

del Rio, M. See Spitler, del Rio, Khentigan, Wedel, Brophy, Miller, Harkonen, Rosendorf, Lee, Mischak, Kawahata, Stoudemire, Fradkin, Bau-

tista, and Scannon, 1717

Del Vecchio, L. See Fontana, Del Vecchio, Racioppi, Carbone, Pinto, Colletta, and Zappacosta, 4178

Delzell, E. See Yu, Henderson, Austin, Delzell, Cole, Grufferman, Levine, Morrison, and Stolley, 654

aille, A. See Bonneterre, Peyrat, Beuscart, Lefebvre, and Demaille, 4724

Demard, F. See Gioanni, Samson, Zanghellini,

Mazeau, Ettore, Demard, Chauvel, Duplay, Schneider, Laurent, and Lalanne, 4417

Dembinski, T. C. See Dubik, Dembinski, and Shiu, 6517

Demers, L. M. See Manni, Badger, Wright, Ahmed, and Demers, 3066

den Engelse, L. See Terheggen, Floot, Scherer, Begg, Fichtinger-Schepman, and den Engelse, 6719

Deng, G., Lu, Y., Chen, S., Miao, J., Lu, G., Li, H., Cai, H., Xu, X., E, Z., and Liu, P. Activated c-Ha-ras Oncogene with a Guanine to Thymine Transversion at the Twelfth Codon in a Human Stomach Cancer Cell Line, 3195

Denko, N. See Stamato, Peters, Patil, Denko, Weinstein, and Giaccia, 1588

Dennin, R. A. See Thompson, Lee, Cox, Lindgren, Collins, Neraas, Dennin, and Fefer, 4202 is, J. W. See Laferté, Fukuda, Fukuda, Dell,

and Dennis, 150 de Noronha, F. See Tavares, Roneker, Johnston,

Lehrman, and de Noronha, 3190 Denstman, S. C. See Dillehay, Denstman, and Wil-

Deodhar, S. D. See Barna, James, and Deodhar, 3959

de Pauw, M. See Stoter, Sylvester, Sleijfer, ten Bokkel Huinink, Kaye, Jones, van Oosterom, Vendrik, Spaander, and de Pauw, 2714

de Riel, J. K. See Valerie, Green, de Riel, and Henderson, 2967

DeRubertis, F. R. See Craven and DeRubertis,

3434 Derynck, R., Goeddel, D. V., Ullrich, A., Gutterman, J. U., Williams, R. D., Bringman, T. S.,

d Berger, W. H. Synthesis of Messenger RNAs for Transforming Growth Factors α and β and the Epidermal Growth Factor Receptor by Human Tumors, 707

Deschner, E. E. See Davies, Weidema, Sandle, Palmer, Deschner, and DeCosse, 4646

DeSombre, E. R. See Mobbs, Johnson, DeSombre, Toth, and Hughes, 2645 etchon, P. See Ilett, David, Detchon, Castleden.

and Kwa, 1466

Deutsch, V. See Lotan, Lotan, and Deutsch, 3152 Devereux, T. R. See Belinsky, White, Devereux, Swenberg, and Anderson, 1143

DeVita, V. T., Jr., Hubbard, S. M., and Longo, D. L. The Chemotherapy of Lymphomas: Looking Back, Moving Forward—The Richard and Hinda Rosenthal Foundation Award Lecture,

Devleeschouwer, N., Legros, N., Olea-Serrano, N., Paridaens, R., and Leclercq, G. Estrogen Conjugates and Serum Factors Mediating the Estrogenic Trophic Effect on MCF-7 Cell Growth,

Devor, D. See Kaufmann, Rice, Wenk, Devor, and Kaufman, 1263

de Vries, E. G. E. See Meijer, Mulder, Timmer-Bosscha, Zijlstra, and de Vries, 4613; Zijlstra, de Vries, and Mulder, 1780

de Vries, J. See van Maanen, de Vries, Pappie, van den Akker, Lafleur, Retèl, van der Greef, and Pinedo, 4658

DeVroom, H. D. See Oldfield, Clark, Dedrick, Egorin, Austin, DeVroom, Joyce, and Doppman, 1962

Dewey, W. C. See Lee and Dewey, 5960
Dexter, D. F. See Gitelman, Dexter, and Roder,

Diamond, L. See Colburn, Farber, Weinstein, Dia-

mond, and Slaga, 5509
Diasio, R. B. See Heggie, Sommadossi, Cross, Huster, and Diasio, 2203

Dick, J. See Hamilton, Hyland, McAvinchey, Chaudhry, Hartka, Kim, Cichon, Floyd, Turjman, Kessie, Nair, and Dick, 1551

Dick, J. E. See Cillo, Dick, Ling, and Hill, 2604 Dickerman, H. W. See Gierthy, Lincoln, Gillespie Seeger, Martinez, Dickerman, and Kumar, 6198 Didolkar, M. S. See El Mouelhi, Didolkar, Elias, Guengerich, and Kauffman, 460

di Donato, P. See Ponz de Leon, Roncucci, di Donato, Sacchetti, Pezcoller, Annoni, Bertani, Rebecchi, Balli, Galli, and Carulli, 305

Diehl, V. See Paietta, Hubbard, Wiernik, Diehl, and Stockert, 2461

Dienes, H-P. See Dippold, Bernhard, Klingel, Dienes, Kron, Schneider, Knuth, and Meyer zum Büschenfelde, 3873; Dippold, Klingel, Bernhard, Dienes, Knuth, and Meyer zum Büschenfelde, 2092

DiGiovanni, J. See Kruszewski, Conti, and Di-Giovanni, 3783; Smolarek, Baird, Fisher, and DiGiovanni, 3701

Diglio, C. See Menter, Steinert, Sloane, Gundlach, O'Gara, Marnett, Diglio, Walz, Taylor, and Honn, 6751

Dillehay, L. E., Denstman, S. C., and Williams, J. R. Cell Cycle Dependence of Sister Chromatid Exchange Induction by DNA Topoisomerase II Inhibitors in Chinese Hamster V79 Cells, 206

Dillman, R. O. See Leonard, Johnson, Felsen, Tanney, Royston, and Dillman, 2899 Dimitrov, N. V. See Vassilev, Kanazirska, Chara-

mella, Dimitrov, and Tien, 519 D'Incalci, M. See Catapano, Broggini, Erba, Ponti, Mariani, Citti, and D'Incalci, 4884; Sariban, Kohn, Zlotogorski, Laurent, D'Incalci, Day, Smith, Kornblith, and Erickson, 3988

DiPietro, M. See Reynolds, DiPietro, Lebovitz, and Lieberman, 6384

Dipple, A. See Pruess-Schwartz, Baird, Yagi, Jerina, Pigott, and Dipple, 4032

Dippold, W. G. See Klingel, Mincheva, Kahn, Gissmann, Dippold, Meyer zum Büschenfelde, and zur Hausen, 4485

Dippold, W. G., Bernhard, H., Klingel, R., Dienes, H-P., Kron, G., Schneider, B., Knuth, A., and Meyer zum Büschenfelde, K-H. A Common Epithelial Cell Surface Antigen (EPM-1) on Gastrointestinal Tumors and in Human Sera, 3873 Dippold, W. G., Klingel, R., Bernhard, H., Dienes, H-P., Knuth, A., and Meyer zum Büschenfelde, K-H. Secretory Epithelial Cell Marker on Gastrointestinal Tumors and in Human Secretions Defined by a Monoclonal Antibody, 2092

DiSorbo, D. See Spigelman, Dowers, Kennedy, DiSorbo, O'Brien, Barr, and McCaffrey, 4694 Di Vito, M. See Podo, Carpinelli, Di Vito, Gian-nini, Proietti, Fiers, Gresser, and Belardelli,

Doane-Setzer, P. See Evans, Bodell, Tokuda, Doane-Setzer, and Smith, 2525 Dodd, R. C. See Ways, Dodd, and Earp, 3344

Doddrell, D. M. See Irving, Brooks, Brereton, Galloway, Field, Bell, Harris, Baddeley, and Doddrell 3901

Dodge, R. K. See Goren, Wright, Pratt, Horowitz,

 Dodge, N. a. See Goren, wright, Fratt, Forowitz,
 Dodge, Viar, and Kovnar, 1457
 Dodion, P., Bernstein, A. L., Fox, B. M., and Bachur, N. R. Loss of Fluorescence by Anthracycline Antibiotics: Effects of Xanthine Oxidase and Identification of the Nonfluorescent Metabolites, 1036

Dodson, M. L. See Meredith and Dodson, 4576 Doerr, C. L. See Arce, Allen, Doerr, Elmore, Hatch, Moore, Sharief, Grunberger, and Nesnow, 3388

Dogović, N. See Müller, Sladić, Zahn, Bässler, Dogović, Gerner, Gasić, and Schröder, 6565 Doherty, K. M., See Balis, Patel, Luks, Doherty,

Holcenberg, Tan, Reaman, Belasco, Ettinger, Zimm, and Poplack, 4973

Doherty, P. W. See Hnatowich, Gionet, Rusckowski, Siebecker, Roche, Shealy, Mattis, Wilson, Hunter, Griffin, and Doherty, 6111

Dolan, P. M. See Kensler, Egner, Dolan, Groop man, and Roebuck, 4271

Domar, U. M. See Hirano, Domar, Yamamoto, Brehmer-Andersson, Wahren, and Stigbrand, 2543

Dombernowsky, P. See Østerlind, Hansen, Dombernowsky, Hansen, and Andersen, 2733 Donehower, R. C. See Rowinsky, Ettinger, Mc-

Guire, Noe, Grochow, and Donehower, 5788 Donelli, M. G. See Chiabrando, Broggini, Castelli, Cozzi, Castagnoli, Donelli, Garattini, Giavazzi, and Fanelli, 988

Dong, Z. See Hong, Pan, Dong, Ning, and Yang, 5948

Donghi, R. See Borrello, Pierotti, Bongarzone, Donghi, Mondellini, and Della Porta, 75 Dooley, K. L. See Delclos, Walker, Dooley, Fu,

and Kadlubar, 6272 Doppman, J. L. See Oldfield, Clark, Dedrick, Ego-

rin, Austin, DeVroom, Joyce, and Doppman, Dorman, L. S. See Stromberg, Hudgins, Dorman,

Henderson, Sowder, Sherrell, Mount, and Orth, 1190 Doroshow, J. H. See Carr, Rahbar, Doroshow,

Blayney, Goldberg, Leong, and Asmeron, 4199 Døskeland, S. O. See Øgreid, Cho-Chung, Ekan-ger, Vintermyr, Haavik, and Døskeland, 2576 Dougherty, D. See Ali-Osman, Giblin, Dougherty,

and Rosenblum, 3718 Douglass, E. C. See Hazelton, Houghton, Parham,

Douglass, Torrance, Holt, and Houghton, 4501; Horowitz, Parham, Douglass, Kun, Houghton, and Houghton, 499 Douillard, J-Y. See Blotière, Maurel, and Douil-

lard, 5238 Dowell, B. L. See Freeman, Dowell, Ochs, Ross,

and Busch, 586 wer, S. K. See Parker, Keenan, Dower, Steller, Holton, Sieber, and Weinstein, 2073

Dowers, A. See Spigelman, Dowers, Kennedy, DiSorbo, O'Brien, Barr, and McCaffrey, 4694 Dowling, J. P. See Werkmeister, Triglia, Mackay,

Dowling, Varigos, Morstyn, and Burns, 225 Dowsett, M. See Coombes, Powles, Easton, Chilvers, Ford, Smith, McKinna, White, Bradbeer, Yarnold, Nash, Bettelheim, Dowsett, Gazet, and Investigators of the Collaborative Breast Cancer Project, 2494

Dowsett, M., Goss, P. E., Powles, T. J., Hutchin-son, G., Brodie, A. M. H., Jeffcoate, S. L., and Coombes, R. C. Use of the Aromatase Inhibitor

4-Hydroxyandrostenedione in Postmenopausal Breast Cancer: Optimization of Therapeutic Dose and Route, 1957

Doyle, L. A., Cuttitta, F., Mulshine, J. L., Bunn, P. A., and Minna, J. D. Markedly Different Anti-body Responses to Immunized Small Cell and Non-Small Cell Lung Cancer Cells, 5009

Doyle, L. V. See Creasey, Doyle, Reynolds, Jung, Lin, and Vitt, 145

Doyle, M. J. See Hori, Ehrke, Mace, Maccubbin, Doyle, Otsuka, and Mihich, 2793

Doyle, M. V., Koths, K., Brindley, L., Fong, S., Halenbeck, R., Ransom, J. H., Pomato, N. Cleveland, L., McCabe, R. P., and Hanna, M. G. Jr. Correspondence re: Janet H. Ransom, et al. Leukoregulin, a Direct-acting Anticancer Immunological Hormone that is Distinct from Lymphotoxin and Interferon, Cancer Res., 45: 851-862, 1985, page 914, Letter to the Editor and Reply

Doyle, S. See Zwelling, Estey, Silberman, Doyle,

and Hittelman, 251

Dracopoli, N. C., Alhadeff, B., Houghton, A. N., and Old, L. J. Loss of Heterozygosity at Autosomal and X-linked Loci during Tumor Progression in a Patient with Melanoma, 3995

Dragani, T. A., Manenti, G., Della Porta, G., and Weinstein, I. B. Factors Influencing the Expression of Endogenous Retrovirus-related Sequences in the Liver of B6C3 Mice, 795

Dressler, L. G., Seamer, L., Owens, M. A., Clark, G. M., and McGuire, W. L. Evaluation of a Modeling System for S-Phase Estimation in Breast Cancer by Flow Cytometry, 5294 Drewinko, B. See Alama, Nicolin, Conte, and Dre-

winko, 1892

Drever, R. N. See Lin, Cashmore, Baker, Drever, Ernstoff, Marsh, Bertino, Whitfield, Delap, and Grillo-Lopez, 609

Duan, D-S., and Sadée, W. Distinct Effects of Adenine and Guanine Starvation on DNA Syn-thesis Associated with Different Pool Sizes of Nucleotide Precursors, 4047

Dubeau, L. See Ahlering, Dubeau, and Jones, 6660 Dubeau, L., and Jones, P. A. Growth of Normal and Neoplastic Urothelium and Response to Epidermal Growth Factor in a Defined Serumfree Medium, 2107

Dubik, D., Dembinski, T. C., and Shiu, R. P. C. Stimulation of c-myc Oncogene Expression Associated with Estrogen-induced Proliferation of Human Breast Cancer Cells, 6517

ideja, P. K. See Dahiya, Dudeja, and Brasitus,

Due, C. See Pettijohn, Stranahan, Due, Rønne, Sørensen, and Olsson, 1161

Due, C., Eriksson, H., Sihm, A., and Olsson, L. Association between Expression of a Tumorassociated Carbohydrate Epitope and the Proliferative and Tumorigenic Activity of a Human Squamous Lung Cancer Cell Line and Epitopepositive and -negative Sublines, 6697

sberg, P. H. Retroviruses as Carcinogens and Pathogens: Expectations and Reality, 1199, Per-

spectives in Cancer Research

Duff, R. See Gorelik, Ovejera, Shoemaker, Jarvis, Alley, Duff, Mayo, Herberman, and Boyd, 5739 Duffy, J. J. See Carper, Duffy, and Gerner, 5249 Dugas, B. See Klein, Jourdan, Vazquez, Dugas, and Bataille, 4856

Dunegan, M. A. See Koff, Dunegan, Chakrabarty, Hampar, and Showalter, 1534

Dungworth, D. L. See Emura, Mohr, Riebe, Aufderheide, and Dungworth, 1155

Dunlop, N. M. See Nara, Dunlop, Robey, Calla-

han, and Fischinger, 667

Dunn, B. P., Black, J. J., and Maccubbin, A. 32P-Postlabeling Analysis of Aromatic DNA Adducts in Fish from Polluted Areas, 6543

Dunnick, J. K., Eustis, S. L., and Lilja, H. S. Bromodichloromethane, a Trihalomethane that Produces Neoplasms in Rodents, 5189

Dupere, S. L., Bulba, A. P., and O'Connor, T. E. Detection of a Tumor-associated Nucleoprotein Antigen in Mink Lung Cells Transformed by Two Different Viral Oncogenes, 2284

Duplay, H. See Gioanni, Samson, Zanghellini, Mazeau, Ettore, Demard, Chauvel, Duplay, Schneider, Laurent, and Lalanne, 4417

Dunont, M. A. See Valette, Gas, Jozan, Roubinet, Dupont, and Bayard, 1615

Durand, R. E. See Chaplin, Olive, and Durand, 597

Durand, R. E., and Olive, P. L. Enhancement of Toxicity from N-(2-Chloroethyl)-N'-cyclohexyl-N-nitrosourea in V79 Spheroids by a Nitrofuran, 5303

Durda, P. J. See Ho, Kato, Durda, Murray, Wolfe, Rabin, and Carney, 241

Durko, M. See Labateya, Thomson, Durko, Shenouda, Robb, and Scanzano, 1058

Dussaulx, E. See Chantret, Chevalier, Dussaulx, and Zweibaum, 1426

Dutcher, J. P. See Marcus, Dutcher, Paietta, Ciobanu, Strauman, Wiernik, Hutner, Frank, and Baker, 4208; Wiernik, Schwartz, Strauman, Dutcher, Lipton, and Paietta, 2486

Dutta-Choudhury, T. A. See D'Ambrosio, Samuel, Dutta-Choudhury, and Wani, 51

E, Z. See Deng, Lu, Chen, Miao, Lu, Li, Cai, Xu, E, and Liu, 3195

Earp, H. S. See Ways, Dodd, and Earp, 3344
Eastman, A. See Richon, Schulte, and Eastman, 2056

Easton, D. See Coombes, Powles, Easton, Chilvers, Ford, Smith, McKinna, White, Bradbeer, Yar nold, Nash, Bettelheim, Dowsett, Gazet, and Investigators of the Collaborative Breast Cancer Project, 2494; McClelland, Berger, Wilson, Powles, Trott, Easton, Gazet, and Coombes,

Ebina, Y. See Li, Okada, Hamazaki, Ebina, and Midorikawa, 1867

Eckelman, W. C. See McManaway, Jagoda, Kasid, Eckelman, Francis, Larson, Gibson, Reba, and Lippman, 2945

Eddy, E. P., Howard, P. C., McCoy, G. D., and Rosenkranz, H. S. Mutagenicity, Unscheduled DNA Synthesis, and Metabolism of 1-Nitropyrene in the Human Hepatoma Cell Line HepG2, page 3163

Edery, M. See Bern, Edery, Mills, Kohrman, Mori, and Larson, 4165

Edmundson, K. B. See Smith, Braylan, Edmundson, Nutkis, and Wakeland, 2062 Edwards, B. R. See Roebuck, Kaplita, Edwards,

and Praissman, 1333 Edwards, D. P. See LeMaistre, Edwards, Krolick, and McGuire, 730

Edwards, S. See Peters, Henner, Grochow, Olsen, Edwards. Stanbuck, Stuart, Gockerman, Moore,

Bast, Seigler, and Colvin, 6402 Eessalu, T. E. See Lewis, Aggarwal Eessalu, Sugarman, and Shepard, 5382; Sugarman, Lewis,

Eessalu, Aggarwal, and Shepard, 780 Egan, S. E. See Greenberg, Egan, Jarolim, Gingras, and Wright, 4801

gras, and wingin, wool in general grass, and wingin, wool in General grass, and wingin, wool in A. A., Reynolds, J. C., Schroff, R. W., Morgan, A. C., Larson, S. M., and Weinstein, J. N. Kinetic Model for the Biodistribution of an 111 In-labeled Monoclonal Antibody in Humans, 3328

Eggleston, J. C. See McLemore, Liu, Blacker, Gregg, Alley, Abbott, Shoemaker, Bohlman, Litterst, Hubbard, Brennan, McMahon, Fine, Eggleston, Mayo, and Boyd, 5132

Egner, P. A. See Kensler, Egner, Dolan, Groopman, and Roebuck, 4271

Egorin, M. J. See Fish, Shelley, Griffiths, Adams, Egorin, and Forrest, 3606; Oldfield, Clark, Dedrick, Egorin, Austin, DeVroom, Joyce, and Doppman, 1962

Egorin, M. J., Conley, B. A., Forrest, A., Zuhowski, E. G., Sinibaldi, V., and Van Echo, D. A. Phase I Study and Pharmacokinetics of Menogaril (NSC 269148) in Patients with Hepatic Dysfunction, 6104

Egorin, M. J., Sigman, L. M., Van Echo, D. A., Forrest, A., Whitacre, M. Y., and Aisner, J. Phase I Clinical and Pharmacokinetic Study of Hexamethylene Bisacetamide (NSC 95580) Ad-6842

ministered as a Five-Day Continuous Infusion.

Egorin, M. J., Zuhowski, E. G., Cohen, A. S., Geelhaar, L. A., Callery, P. S., and Van Echo, D. A. Plasma Pharmacokinetics and Urinary Excretion of Hexamethylene Bisacetamide Metabolites 6142

Ehninger, G., Klingebiel, T., Kumbier, I., Schuler, U., Feine, U., Treuner, J., and Waller, H. D. Stability and Pharmacokinetics of m-[131]Iodobenzylguanidine in Patients, 6147

Ehrke, M. J. See Hori, Ehrke, Mace, Maccubbin, Doyle, Otsuka, and Mihich, 2793; Hori, Ehrke, Mace. and Mihich, 5868

Ehrlich, G. D. See Graziano, Lehr, Merl, Ehrlich, Moore, Hallinan, Hubbell, Davey, Vournakis, and Poiesz, 2468

Eich, E. See Glatt, Eich, Pertz, Becker, and Oesch, 1811

Eisbruch, A., Blick, M., Lee, J. S., Sacks, P. G., and Gutterman, J. Analysis of the Epidermal Growth Factor Receptor Gene in Fresh Human

Head and Neck Tumors, 3603 Eisenthal, A., Lafreniere, R., Lefor, A. T., and Rosenberg, S. A. Effect of Anti-B16 Melanoma Monoclonal Antibody on Established Murine B16 Melanoma Liver Metastases, 2771

Eisman, J. A., Barkla, D. H., and Tutton, P. J. M. Suppression of in Vivo Growth of Human Cancer Solid Tumor Xenografts by 1,25-Dihydroxyvitamin D₃, 21

Ekanger, R. See Øgreid, Cho-Chung, Ekanger, Vintermyr, Haavik, and Døskeland, 2576 Eki, T., Enomoto, T., Murakami, Y., Hanaoka, F.,

and Yamada, M-a. Characterization of Chromosome Aberrations Induced by Incubation at a Restrictive Temperature in the Mouse Temperature-sensitive Mutant tsFT20 Strain Containing Heat-labile DNA Polymerase α, 5162

El-Bayoumy, K. See Reddy, Sugie, Maruyama, El-

Bayoumy, and Marra, 5901
Elbers, J. See Bear, Clayman, Elbers, Limas, Wang, Stone, Gebhard, Prigge, and Palmer,

Elder, D. E. See Kornstein, Stewart, and Elder, 1411; Thurin, Thurin, Kimoto, Herlyn, Lubeck, Elder, Smereczynska, Karlsson, Clark, Steplewski, and Koprowski, 1229

Eldridge, S. R. See Moore, Eldridge, Tricomi, and Gould, 2609

Elferink, F. See van Hennik, van der Vijgh, Klein, Elferink, Vermorken, Winograd, and Pinedo,

El-Fouly, M. H. See Chang, Trosko, El-Fouly, Gibson-D'Ambrosio, and D'Ambrosio, 1634; Kavanagh, Martin, El-Fouly, Trosko, Chang, and Rabinovitch, 6046

Elias, E. G. See El Mouelhi, Didolkar, Elias, Guengerich, and Kauffman, 460

Eling, T. E. See Boyd and Eling, 4007 Ellinwood, E. See Goldstein, Gockerman, Krish-

nan, Ritchie, Tso, Hood, Ellinwood, and Laszlo, Elliott, B. E., Carlow, D. A., Ivimey, L., Arnold, M., Hampton, N., and Bosman, P. In Situ Aug-

mentation of Class I Major Histocompatibility Antigen Expression on Immunogenic Variants of a Spontaneous Murine Mammary Carcinoma, 4915

Elliott, G. C. See Squires, Elliott, and Johnson,

Ellison, M. D., Povlishock, J. T., and Merchant, R. E. Blood-Brain Barrier Dysfunction in Cats following Recombinant Interleukin-2 Infusion,

Elmets, C. A. See Klemme, Mukhtar, and Elmets,

Elmore, E. See Arce, Allen, Doerr, Elmore, Hatch, Moore, Sharief, Grunberger, and Nesnow, 3388 El Mouelhi, M., Didolkar, M. S., Elias, E. G.,

Guengerich, F. P., and Kauffman, F. C. Hepatic Drug-metabolizing Enzymes in Primary and Secondary Tumors of Human Liver, 460

Ely, C. M., Leftwich, J. A., Chenevix-Trench, G., Hall, R. E., and Westin, E. H. Altered Regula-tion of c-myc in an HL-60 Differentiation Resistant Subclone, HL-60-1E3, 4595

Buffe, Rimbaut, and Peries, 867

Emrich, L. J. See Manly, Petrelli, Anderson, Emrich, Herrera, and Mittelman, 6156

Emura, M. See Ernst, Emura, Bellmann, Seinsch, and Mohr. 5112

Emura, M., Mohr, U., Riebe, M., Aufderheide, M., and Dungworth, D. L. Predisposition of Cloned Fetal Hamster Lung Epithelial Cells to Transformation by a Precarcinogen, Benzo(a)pyrene, Using Growth Hormone Supplementation and Collagen Gel Substratum, 1155

Endo, K. See Atsumi, Endo, Kakutani, Takakura,

Hashida, and Sezaki, 5546

Endo, K. See Matsuoka, Nakashima, Endo, Yoshida. Kunimatsu, Sakahara, Koizumi, Nakagawa, Yamaguchi, and Torizuka, 6335

Endo, K., Kamma, H., and Ogata, T. Radiolocali-Endo, A., Kalmin, H., and Ogaia, I. Kaudiocair-zation of Xenografted Human Lung Cancer with Monoclonal Antibody 8 in Nude Mice, 5427 Endo, N., Kato, Y., Takeda, Y., Saito, M., Ume-moto, N., Kishida, K., and Hara, T. *In Vitro*

Cytotoxicity of a Human Serum Albumin-mediated Conjugate of Methotrexate with Anti-MM46 Monoclonal Antibody, 1076

ndo, T., Nishimura, R., Kawano, T., Mochizuki, M., and Kobata, A. Structural Differences Found in the Asparagine-linked Sugar Chains of Hu-man Chorionic Gonadotropins Purified from the Urine of Patients with Invasive Mole and with Choriocarcinoma, 5242

Engle, A. See Reddy, Sharma, Simi, Engle, Laakso, Puska, and Korpela, 644

Enomoto, T. See Eki, Enomoto, Murakami, Hanaoka, and Yamada, 5162

Ensminger, W. D. See Wollner, Knutsen, Ullrich, Chrisp, Juni, Andrews, Tuscan, Stetson, and Ensminger, 3285

Epenetos, A. A. See Courtenay-Luck, Epenetos, Winearls, and Ritter, 4520; Rowlinson, Snook,

Busza, and Epenetos, 6528 Epstein, A. L., Marder, R. J., Winter, J. N., Stath-opoulos, E., Chen, F-M., Parker, J. W., and Taylor, C. R. Two New Monoclonal Antibodies, Lym-1 and Lym-2, Reactive with Human B-Lymphocytes and Derived Tumors, with Immunodiagnostic and Immunotherapeutic Poten-

Erba, E. See Catapano, Broggini, Erba, Ponti, Mariani, Citti, and D'Incalci, 4884; Gambacorti-Passerini, Radrizzani, Erba, Fossati, and

Parmiani, 2547

Erexson, G. L. See Kligerman, Erexson, Wilmer, and Schold, 631

Erickson, K. L. See Buckman, Erickson, and Ross,

5631; Hubbard and Erickson, 6171 Erickson, L. C. See Sariban, Kohn Zlotogorski, Laurent, D'Incalci, Day, Smith, Kornblith, and Erickson, 3988; Seidenfeld, Barnes, Block, and

Erickson, 4538

Ericson, G. See Gabel, Holstein, Larsson, Gille,

Ericson, Sacker, Som, and Fairchild, 5451 Ericsson, J. L. E. See Malker, McLaughlin, Silverman, Ericsson, Stone, Weiner, Malker, and Blot, 6763; McLaughlin, Malker, Malker, Stone, Ericsson, Blot, Weiner, and Fraumeni,

Eriksson, H. See Due, Eriksson, Sihm, and Olsson, 6697

Eriksson, S. See Skog, Tribukait, Wallström, and Eriksson, 6490

Ernst, H., Emura, M., Bellmann, B., Seinsch, D., and Mohr, U. Failure to Transmit Diethylni-trosamine Tumorigenicity from Transplacentally Exposed F. Generation Syrian Hamsters to the Respiratory Tract of F2 and F3 Generations, 5112

Ernster, V. L. See Gruenke, Wrensch, Petrakis, Miike, Ernster, and Craig, 5483 Ernstoff, M. See Lin, Cashmore, Baker, Dreyer,

Ernstoff, Marsh, Bertino, Whitfield, Delap, and Grillo-Lopez, 609

Ershler, W. See Tsuda, Kim, Siskind, DeBlasio, Schwab, Ershler, and Weksler, 3097 Erturk, E. See Lee, Erturk, Mayer, and Cockett,

Ervin, T. J. See Case, Gams, Ervin, Boyd, and Oldham, 6393

Eshel, I. See Klein, Lang, Eshel, Sharabi, and

Shoham, 3351

Espevik, T. See Nissen-Meyer, Austgulen, and Espevik, 2251

Esteban, J. M. See Colcher, Esteban, Carrasquillo, Sugarbaker, Reynolds, Bryant, Larson, and Schlom, 1185, 4218

Estey, E. See Plunkett, Liliemark, Adams, Nowak, Estey, Kantarjian, and Keating, 3005; Zwelling,

Estey, Silberman, Doyle, and Hittelman, 251
Esumi, N., Todo, S., and Imashuku, S. Platelet
Aggregating Activity Mediated by Thrombin eration in the NCG Human Neuroblastoma Cell Line, 2129

Ethier, S. P., See Adams, Ethier, and Ullrich, 4425 Ethier, S. P., and Cundiff, K. C. Importance of Extended Growth Potential and Growth Factor Independence on in Vivo Neoplastic Potential of Primary Rat Mammary Carcinoma Cells,

Ettinger, D. S. See Rowinsky, Ettinger, McGuire, Noe, Grochow, and Donehower, 5788

Ettinger, L. J. See Avramis, Biener, Krailo, Fin-klestein, Ettinger, Willoughby, Siegel, and Hol-cenberg, 6786; Balis, Patel, Luks, Doherty, Holcenberg, Tan, Reaman, Belasco, Ettinger,

Zimm, and Poplack, 4973

Ettore, F. See Gioanni, Samson, Zanghellini, Mazeau, Ettore, Demard, Chauvel, Duplay, Schneider, Laurent, and Lalanne, 4417

uropean Organization for Research and Treatment of Cancer Workshop See McVie and Muggia,

Eustis, S. L. See Dunnick, Eustis, and Lilja, 5189 Evain-Brion, D. See Plet, Evain-Brion, Gerbaud, and Anderson, 5831

Evans, C. G., Bodell, W. J., Tokuda, K., Doane-Setzer, P., and Smith, M. T. Glutathione and Related Enzymes in Rat Brain Tumor Cell Resistance to 1,3-Bis(2-chloroethyl)-1-nitrosourea and Nitrogen Mustard, 2525

Evarts, R. P., See Wirth, Rao, and Evarts, 2839 Evarts, R. P., Nagy, P., Marsden, E., and Thorgeirsson, S. S. In Situ Hybridization Studies on Expression of Albumin and α -Fetoprotein during the Early Stage of Neoplastic Transformation in Rat Liver, 5469

Evelhoch, J. L., Keller, N. A., and Corbett, T. H. Response-specific Adriamycin Sensitivity Mark-ers Provided by in Vivo 31P Nuclear Magnetic Resonance Spectroscopy in Murine Mammary Adenocarcinomas, 3396

Ezell, S. M. See Klostergaard, Leroux, Ezell, and Kull, 2014

Fabris, G. See Marchetti, Querzoli, Moncharmont, Parikh, Bagni, Marzola, Fabris, and Nenci, 2508

Faguet, G. B. See Beebe and Faguet, 2380

Fahey, J. R., and Hines, D. L. Progressive Growth of Immunogenic Tumors: Relationship between Susceptibility of Ascites P815 Tumor Cells to T-Cell-mediated Lysis and Immune Destruction in Vivo, 4759 Failly-Crépin, C. See Busso, Belin, Failly-Crépin, and Vassalli, 364

Fair, W. R. See Russo, Liguori, Heston, Huryk, Yang, Fair, Whitmore, and Herr, 5967; Stephenson, James, Gay, Fair, Whitmore, and

Melamed, 2504

Fairchild, C. R., Ivy, S. P., Kao-Shan, C-S., Whang-Peng, J., Rosen, N., Israel, M. A., Melera, P. W., Cowan, K. H., and Goldsmith, M. E. Isolation of Amplified and Overexpressed DNA Sequences from Adriamycin-resistant Human Breast Cancer Cells, 5141

Fairchild, R. G. See Coderre, Glass, Fairchild, Roy, Cohen, and Fand, 6377; Gabel, Holstein, Lars son, Gille, Ericson, Sacker, Som, and Fairchild,

Cohen, and Fand, 6377

Fairman, R. P., Glauser, F. L., Merchant, R. E., Bechard, D., and Fowler, A. A. Increase of Rat Pulmonary Microvascular Permeability to Albumin by Recombinant Interleukin-2, page 3528 Fand, I. See Coderre, Glass, Fairchild, Roy, Fand, I., Sharkey, R. M., Primus, F. J., Cohen, S. A., and Goldenberg, D. M. Relationship of Radioantibody Localization and Cell Viability in a Xenografted Human Cancer Model as Mea-

sured by Whole-Body Autoradiography, 2177

Fanelli, R. See Airoldi, Bonfanti, Magagnotti, and
Fanelli, 3697; Chiabrando, Broggini, Castelli, Cozzi, Castagnoli, Donelli, Garattini, Giavazzi,

and Fanelli 988

Fanucchi, M. P., Kinahan, J. J., Samuels, L. L., Hancock, C., Chou, T-C., Niedzwiecki, D., Farag, F., Vidal, P. M., DeGraw, J. I., Sternberg, S. S., Sirotnak, F. M., and Young, C. W. Toxicity, Elimination, and Metabolism of 10-Ethyl-10deazaaminopterin in Rats and Dogs, 2334 Fanucchi, M. P., Walsh, T. D., Fleisher, M., Lokos,

G., Williams, L., Cassidy, C., Vidal, P., Chou, T. C., Niedzwiecki, D., and Young, C. W. Phase I and Clinical Pharmacology Study of Trimetrex-ate Administered Weekly for Three Weeks,

Farag, F. See Fanucchi, Kinahan, Samuels, Hancock, Chou, Niedzwiecki, Farag, Vidal, De-Graw, Sternberg, Sirotnak, and Young, 2334

Farah, R. N. See Babu, Lutz, Miles, Farah, Weiss, and Van Dyke, 6800

Faras, A. J. See Ostrow, Manias, Clark, Okagaki, Twiggs, and Faras, 649

Farber, E. See Colburn, Farber, Weinstein, Diamond, and Slaga, 5509; Harris, Preat, and Far-ber, 3954; Rushmore, Ghazarian, Subrahman-yan, Farber, and Ghoshal, 6731; Tatematsu, Lee, Hayes, and Farber, 4699

Fast, L. D. See Weltman, Pedroso, Johnson, Dav-

ignon, Fast, and Leone, 5552

Faulkner, L. E. See Leith, Michelson, Faulkner, and Bliven, 1045 Fausto, N. See Braun, Goyette, Yaswen, Thomp-

son, and Fausto, 4116 Favre, R. See Rahmani, Bruno, Iliadis, Favre, Just,

Barbet, and Cano, 5796

Fearon, E. R. See Vogelstein, Fearon, Hamilton, Preisinger, Willard, Michelson, Riggs, and Orkin. 4806

Fearon, K C. H., Plumb, J. A., Burns, H. J. G., and Calman, K. C. Reduction of the Growth Rate of the Walker 256 Tumor in Rats by Rhodamine

6G Together with Hypoglycemia, 3684
Fee, W. E., Jr. See Ranken, White, Gottfried,
Yonkovich, Blazek, Moss, Fee, and Liu, 5684 Fefer, A. See Thompson, Lee, Cox, Lindgren, Collins, Neraas, Dennin, and Fefer, 4202

Feine, U. See Ehninger, Klingebiel, Kumbier, Schuler, Feine, Treuner, and Waller, 6147

Fejka, R. M. See Keenan, Weinstein, Carrasquillo, Bunn, Reynolds, Foon, Smarte, Ghosh, Fejka, Larson, and Mulshine, 6093

Felsen, R. B. See Leonard, Johnson, Felsen, Tanney, Royston, and Dillman, 2899

Felsted, R. L. See Beck, Cirtain, Danks, Felsted, Safa, Wolverton, Suttle, and Trent, 5455; Safa, Glover, and Felsted, 5149

Felton, J. S. See Schiffman, Haley, Felton, Andrews, Kaslow, Lancaster, Kurman, Brinton, Lannom, and Hoffmann, 3886

Ferguson, P. J., and Cheng, Y-c. Transient Protection of Cultured Human Cells against Antitumor Agents by 12-O-Tetradecanoylphorbol-13-

Fernandes, D. J. See Sur, Fernandes, Kute, and Capizzi, 1313

Fernandez-Pol, J. A., Klos, D. J., Hamilton, P. D., and Talkad, V. D. Modulation of Epiderm Growth Factor Receptor Gene Expression by Transforming Growth Factor-β in a Human Breast Carcinoma Cell Line, 4260

Ferrara, J. A. See Miller, Hamburg, and Ferrara,

Ferrero, D., Pregno, P., Tarella, C., Ruscetti, F. W., Pileri, A., and Gallo, E. Trophoblast Cell Line Conditioned Medium for in Vitro Culture and Antigenic Characterization of Acute Myeloid Leukemia Clonogenic Cells, 6413

Ferris, R. J. See FitzGerald, Bjorn, Ferris, Winkelhake, Frankel, Hamilton, Ozols, Willingham, and Pastan, 1407 Ferro, A. J. See Riscoe, Schwamborn, Ferro, Ol-

son, and Fitchen, 3830

Ferrone, S. See Giacomini, Viora, Tecce, Knowles, Natali, and Ferrone, 5175; Hamby, Liao, Kanamaru, and Ferrone, 5284; Kusama, Kageshita. Tsujisaki, Perosa, and Ferrone, 4312; Liao, Smith, Kwong, Natali, Kusama, Hamby, and Ferrone, 4835; Ziai, Imberti, Nicotra, Badaracco, Segatto, Natali, and Ferrone, 2474
Feuerstein, N. See Zelikoff, Garte, Belman, Feuer-

stein, and Cooper, 329

Fiala, E. S. See Hamilton, Sohn, and Fiala, 4305; Sohn, Fiala, Puz, Hamilton, and Williams, 3123 Fiala, E. S., Sohn, O. S., and Hamilton, S. R. Effects of Chronic Dietary Ethanol on the in Vivo and in Vitro Metabolism of Methylazoxymethanol and on Methylazoxymethanol-induced DNA Methylation in Rat Colon and

Liver, 5939 Fialkow, P. J. See Reddy, Caldwell, and Fialkow,

Fichtinger-Schepman, A. M. J. See Terheggen, Floot, Scherer, Begg, Fichtinger-Schepman, and

den Engelse, 6719

Fichtinger-Schepman, A. M. J., van Oosterom, A. T., Lohman, P. H. M., and Berends, F. cis-Diamminedichloroplatinum(II)-induced DNA Adducts in Peripheral Leukocytes from Seven Cancer Patients: Quantitative Immunochemical Detection of the Adduct Induction and Removal after a Single Dose of cis-Diamminedichloroplatinum(II), 3000

Fidler, I. J., Heicappell, R., Saiki, I., Grutter, M. G., Horisberger, M. A., and Neusch, J. Direct Antiproliferative Effects of Recombinant Human Interferon-α B/D Hybrids on Human Tu-

mor Cell Lines, 2020

Field, J. See Irving, Brooks, Brereton, Galloway, Field, Bell, Harris, Baddeley, and Doddrell, Fields, K. See Lloyd, Coleman, Fields, and Nath,

1087

Fiers, W. See Balkwill, Ward, Moodie, and Fiers, 4755; Podo, Carpinelli, Di Vito, Giannini, Proietti, Fiers, Gresser, and Belardelli, 6481

Filippeschi, S. See Alessandri, Filippeschi, Sinibaldi, Mornet, Passera, Spreafico, Cappa, and Gullino, 4243

Finch, L. R. See Jamieson, Finch, Snook, and

Wiley, 3130

Findley, H. W., Jr., Steuber, C. P., Krischer, J. P., and Ragab, A. H. Pediatric Oncology Group Study of in Vitro Clonal Growth Patterns of Leukemic Cells in Childhood Acute Nonlymphocytic Leukemia as a Predictor of Induction Response, 4225

Fine, D. L. See McLemore, Liu, Blacker, Gregg, Alley, Abbott, Shoemaker, Bohlman, Litterst, Hubbard, Brennan, McMahon, Fine, Eggleston,

Mayo, and Boyd, 5132

Fine, R. L. See Kao-Shan, Fine, Whang-Peng, Lee, and Chabner, 6278

Fingar, V. H. See Henderson and Fingar, 3110 Fingert, H. J., Chen, Z., Mizzahi, N., Gajewski, W. H., Bamberg, M. P., and Kradin, R. L. Rapid Growth of Human Cancer Cells in a Mouse Model with Fibrin Clot Subrenal Capsule Assay, 3824

Fink, D. W., Jr., and Mirkin, B. L. Effects of Chemical Sympathectomy in Neonatal and Adult Mice on C-1300 Neuroblastoma Tumor Growth and Catecholamine Content, 5620

Finklestein, J. See Avramis, Biener, Krailo, Finklestein, Ettinger, Willoughby, Siegel, and Holcenberg, 6786

Finlay, G. J. See Mountjoy, Finlay, and Holdaway,

Finollo, R. See Brambilla, Carlo, Finollo, and Sciahà, 3485

Fiorucci, G. See Pulciani, Sakano, Ohnishi, Anastasi, Pecorelli, Fiorucci, Oppi, Rossi, and Bonavida, 523

Fischer, S. M., Fürstenberger, G., Marks, F., and Slaga, T. J. Events Associated with Mouse Skin Tumor Promotion with Respect to Arachidonic Acid Metabolism: A Comparison between SEN-CAR and NMRI Mice, 3174

Fischinger, P. J. See Nara, Dunlop, Robey, Callahan, and Fischinger, 667 Fish, R. G., Shelley, M. D., Griffiths, H., Adams,

M., Egorin, M. J., and Forrest, A. Correspondence re: M. J. Egorin et al. Pharmacokinetics and Dosage Reduction of cis-Diammine(1,1-cyclobutanedicarboxylato)platinum in Patients with Impaired Renal Function. Cancer Res., 44: 5432-5438, 1984, page 3606, Letter to the Editor and Renly

Fishbaugh, J. See Yen, Forbes, DeGala, and Fishbaugh, 129

Fisher, E. P. See Smolarek, Baird, Fisher, and DiGiovanni, 3701

Fitchen, J. H. See Riscoe, Schwamborn, Ferro, Olson, and Fitchen, 3830

Fitzer, C. J. See Guillem, O'Brian, Fitzer, Forde, LoGerfo, Treat, and Weinsten, 2036 FitzGerald, D. J. See Lyall, Hwang, Cardarelli,

FitzGerald, Akiyama, Gottesman, and Pastan,

FitzGerald, D. J., Bjorn, M. J., Ferris, R. J., Winkelhake, J. L., Frankel, A. E., Hamilton, T. C., Ozols, R. F., Willingham, M. C., and Pastan, I. Antitumor Activity of an Immunotoxin in a Nude Mouse Model of Human Ovarian Cancer, 1407

Fitzpatrick, D. A. See Borlinghaus, Fitzpatrick, Heindel, Mattis, Mease, Schray, Shealy, Wal-

ton, and Woo, 4071

Fizames, C. See Stevens, Hickman, Langdon, Chubb, Vickers, Stone, Baig, Goddard, Gibson, Slack, Newton, Lunt, Fizames, and Lavelle, 5846

Flatow, J. L. See Rosowsky, Wright, Cucchi, Flatow, Trites, Teicher, and Frei, 5913

Fleisch, H. See Kozak, Rizzoli, Trechsel, and Fleisch, 6193

Fleisher, M. See Fanucchi, Walsh, Fleisher, Lo-kos, Williams, Cassidy, Vidal, Chou, Nied-zwiecki, and Young, 3303

Fleiszer, D. M. See Glickman, Suissa, and Fleiszer, 4766

Fleuren, G. J. See Rodenburg, Ploem-Zaaijer, Cornelisse, Mesker, Hermans, Heintz, Ploem, and Fleuren, 3938

Floot, B. G. J. See Terheggen, Floot, Scherer, Begg, Fichtinger-Schepman, and den Engelse, 6719

Florine, D. L. See Yeh, Tsai, Chuang, Yeh, Tsai, Florine, and Tam, 896

Floyd, J. See Hamilton, Hyland, McAvinchey, Chaudhry, Hartka, Kim, Cichon, Floyd, Turjman, Kessie, Nair, and Dick, 1551 Focella, A. See Smart, Huang, Han, Kaplan, Fo-

cella, and Conney, 6633

Fodstad, Ø. See Godal, Fodstad, and Pihl, 6243; Kvalheim, Fodstad, Pihl, Nustad, Pharo, Ugelstad, and Funderud, 846

Foekens, J. A. See Setyono-Han, Henkelman, Foe-

kens, and Klijn, 1566

Foiles, P. G., Chung, F-L., and Hecht, S. S. Development of a Monoclonal Antibody-based Immunoassay for Cyclic DNA Adducts Resulting from Exposure to Crotonaldehyde, 360

Foley, J. See Ara, Aprille, Malis, Kane, Cincotta, Foley, Bonventre, and Oseroff, 6580

Fong, S. See Doyle, Koths, Brindley, Fong, Halenbeck, Ransom, Pomato, Cleveland, McCabe, and Hanna, 914

Fontana, S., Del Vecchio, L., Racioppi, L., Carbone, E., Pinto, A., Colletta, G., and Zappacosta, S. Expression of Major Histocompatibility Complex Class I Antigens in Normal and Transformed Rat Thyroid Epithelial Cell Lines, 4178

Foon, K. A. See Eger, Covell, Carrasquillo, Abrams, Foon, Reynolds, Schroff, Morgan, Larson, and Weinstein, 3328; Keenan, Weinstein, Carrasquillo, Bunn, Reynolds, Foon, Smarte, Ghosh, Fejka, Larson, and Mulshine, 6093; Stevenson, Keenan, Woodhouse, Ottow, Miller, Steller, Foon, Abrams, Beman, Larson, and Sugarbaker, 6100

Forbes, I. J. See Cowled, Mackenzie, and Forbes,

Forbes, M. See Yen, Forbes, DeGala, and Fishbaugh, 129

Ford, H. T. See Coombes, Powles, Easton, Chil-

vers, Ford, Smith, McKinna, White, Bradbeer, Yarnold, Nash, Bettelheim, Dowsett, Gazet, and Investigators of the Collaborative Breast Cancer

Project, 2494

Forde, K. A. See Guillem, O'Brian, Fitzer, Forde, LoGerfo, Treat, and Weinstein, 2036

Formelli, F., Carsana, R., and Pollini, C. Pharmacokinetics of 4'-Deoxy-4'-iodo-doxorubicin in Plasma and Tissues of Tumor-bearing Mice Compared with Doxorubicin, 5401

Forrest, A. See Egorin, Conley, Forrest, Zuhowski, Sinibaldi, and Van Echo, 6104; Egorin, Sigman, Van Echo, Forrest, Whitacre, and Aisner, 617; Fish, Shelley, Griffiths, Adams, Egorin, and Forrest, 3606

Forrest, G. See Kerr, Kaye, Cassidy, Bradley, Rankin, Adams, Setanoians, Young, Forrest, Soukop, and Clavel, 6776

Forrester, L. M. See Mandel, Manson, Judah, Simpson, Green, Forrester, Wolf, and Neal,

Forseth, B. J. See Arteaga, Forseth, Clark, and Von Hoff, 6248

Fortmeyer, H. P. See Vaupel, Fortmeyer, Runkel, and Kallinowski, 3496

Fossati, G. See Gambacorti-Passerini, Radrizzani, Erba, Fossati, and Parmiani, 2547

Fournier, C. See Hecquet, Vennin, Fournier, and Poissonnier, 6134

Fowler, A. A. See Fairman, Glauser, Merchant, Bechard, and Fowler, 3528

Fox, B. M. See Dodion, Bernstein, Fox, and Bachur, 1036

Fox, C. F. See Rao, Williams, and Fox, 5888

Fradkin, L. B. See Spitler, del Rio, Khentigan, Wedel, Brophy, Miller, Harkonen, Rosendorf, Lee, Mischak, Kawahata, Stoudemire, Fradkin,

Bautista, and Scannon, 1717
Fram, R. J., Robichaud, N., Bishov, S. D., and Wilson, J. M. Interactions of cis-Diamminedichloroplatinum(II) with 1-β-D-Arabinofuranosylcytosine in LoVo Colon Carcinoma Cells, 3360

Francavilla, A., Ove, P., Polimeno, L., Coetzee, M., Makowka, L., Rose, J., Van Thiel, D. H., and Starzl, T. E. Extraction and Partial Purification of Hepatic Stimulatory Substance in Rats, Mice, and Dogs, 5600

Francis, B. E. See McManaway, Jagoda, Kasid, Eckelman, Francis, Larson, Gibson, Reba, and Lippman, 2945

Frank, O. See Marcus, Dutcher, Paietta, Ciobanu, Strauman, Wiernik, Hutner, Frank, and Baker,

4208 Frankel, A. E. See FitzGerald, Bjorn, Ferris, Winkelhake, Frankel, Hamilton, Ozols, Wil-

lingham, and Pastan, 1407 Frankfurt, O. S. Flow Cytometry Analysis of DNA Damage and the Evaluation of Cytotoxicity of

Alkylating Agents, 5537 Franko, A. J., Koch, C. J., Garrecht, B. M., Sharplin, J., and Hughes, D. Oxygen Dependence of Binding of Misonidazole to Rodent and Human

Tumors in Vitro, 5367 Fraumeni, J. F., Jr. See Brinton, Tashima, Leh-man, Levine, Mallin, Savitz, Stolley, and Fraumeni, 1706; Levin, Gao, Blot, Zheng, and Fraumeni, 5777; McLaughlin, Malker, Malker,

Stone, Ericsson, Blot, Weiner, and Fraumeni, 287 Freeman, J. W. See Black, Freeman, Zhou, and Busch, 3266; Chatterjee, Freeman, and Busch,

Freeman, J. W., Dowell, B. L., Ochs, R. L., Ross, B. E., and Busch, H. Effect of Differentiation on the Expression of a Nucleolar Antigen with a Molecular Weight of 145,000 in HL-60 Cells.

Frei, E., III Note re: Position Paper on Curative Cancer Chemotherapy. Cancer Res., 45: 6523-6537, 1985, page 3907, Letter to the Editor. See also Griswold, Trader, Frei, Peters, Wolpert, and Laster, 2323; Rosowsky, Wright, Cucchi, Flatow, Trites, Teicher, and Frei, 5913; Teicher, Holden, Kelley, Shea, Cucchi, Rosowsky, Henner, and Frei, 388

Freireich, E. J See Bakic, Chan, Freireich, Marton, and Zwelling, 6437

Fremy, J. See Zhu, Zhang, Hu, Xiao, Chen, Xu, Fremy, and Chu, 1848

Friedlos, F. See Pera, Friedlos, Mills, and Roberts,

6810; Roberts and Friedlos, 31

nan, H. M. See Zarcone, Tilden, Friedman, and Grossi 2674

Friedman, H. S. See Warnke, Friedman, Bigner,

and Groothuis, 1687

Friend, C., Zajac-Kaye, M., Holland, J. G., and Pogo, B. G-T. Depletion of Sodium Butyrate from the Culture Medium of Friend Erythroleukemia Cells Undergoing Differentiation, 378 Fritz, N. F. See Jordan, Fritz, and Tormey, 624,

4517

Frost, P. See Kendal, Wang, Hsu, and Frost, 3835;

LeGrue, Simcik, and Frost, 4413
Frost, P., Kerbel, R. S., Hunt, B., Man, S., and
Pathak, S. Selection of Metastatic Variants with Identifiable Karyotypic Changes from a Nonmetastatic Murine Tumor after Treatment with 2'-Deoxy-5-azacytidine or Hydroxyurea: Impli-cations for the Mechanisms of Tumor Progres-

Fry, D. G. See Hurlin, Fry, Maher, and Mc-Cormick, 5752

Fu, P. P. See Delclos, Walker, Dooley, Fu, and Kadlubar, 6272

Fuchs, D. See Reibnegger, Hetzel, Fuchs, Fuith, Hausen, Werner, and Wachter, 4977

Fuith, L. C. See Reibnegger, Hetzel, Fuchs, Fuith, Hausen, Werner, and Wachter, 4977

Fujii, R. See Ito, Ishikawa, Okano, Hattori, Fujii, Shinozawa, and Shibuya, 4146 Fujii, Y. See Sato, Fujii, Ono, Nomura, and Shi-

zume, 6474

Fujii, Y., Kimura, S., Arai, S., and Sendo, F. In Vivo Antitumor Effect of Lymphokine-activated

Rodent Polymorphonuclear Leukocytes, 6000 Fujii, Y., Yuki, N., Takeichi, N., Kobayashi, H., and Miyazaki, T. Differentiation Therapy of a Myelomonocytic Leukemia (c-WRT-7) in Rats by Injection of Lipopolysaccharide and Dauno-

Fujikawa-yamamoto, K. See Ota, Fujikawa-yamamoto, Zong, Yamazaki, Odashima, Kitagawa, Abe, and Arichi, 3863

Fujiki, H. See Wattenberg, Fujiki, and Rosner,

Fujimori, K. See Tokunaga, Nakamura, Sakata, Fujimori, Ohkubo, Sawada, and Sakiyama, 5616

Fuilmoto, I. See Okuda, Fujimoto, Hanai, and Urano, 4967

Fujimoto, K., Oka, T., and Morimoto, M. Antitumor Activity of a Novel Antitumor Antibiotic, Quinocarmycin Citrate (KW2152), 1516

Fujioka, H. See Tamura, Fujioka, Nakano, Hada, and Higashino, 6138

Fujisawa, M. See Watanabe, Okabe, Fujisawa, Takaku, and Fukayama, 960; Watanabe, Okabe, Fujisawa, Takaku, Hirohashi, and Shimosato,

Fujita, J. See Ohuchi, Horan Hand, Merlo, Fujita, Mariani-Costantini, Thor, Nose, Callahan, and Schlom, 1413; Ohuchi, Wunderlich, Fujita, Colcher, Muraro, Nose, and Schlom, 3565 Fujita, T. See Romkes, Piskorska-Pliszczynska, Keys, Safe, and Fujita, 5108

Fujiwara, Y. Differential Induction of Indirect DNA Breaks but No Inhibition of Strand-Break Ligation of Alkylated DNA by 3-Aminobenzamide in Human and C3H 10T1/2 Cells, 1118

Fukao, K. See Koyama, Mukai, Fukao, Arimura, Iwasaki, and Osuga, 4667

Fukasawa, M. See Tsujimoto, Noda, Ishikawa, Nakamura, Fukasawa, Sakakibara, Sasagawa, Honjo, and Hayami, 269

Fukase, S., Inoue, T., Arai, S., and Sendo, F. Tumor Cytotoxicity of Polymorphonuclear Leukocytes in Beige Mice: Linkage of High Responsiveness to Linear β-1,3-D-Glucan with the Beige Gene, 4842

Fukatsu, T. See Sobue, Takeuchi, Yoshida, Akao, Fukatsu, Nagasaka, and Nakashima, 160

Fukayama, M. See Watanabe, Okabe, Fujisawa, Takaku, and Fukayama, 960 Fukuda, M. See Hiraoka, Ohkubo, and Fukuda,

5025 Fukuda, M. See Laferté, Fukuda, Fukuda, Dell, and Dennis, 150

Fukuda, M. N. See Laferté, Fukuda, Fukuda, Dell,

and Dennis, 150

Fukukawa, T. See Matsuzaki, Haruta, Fukukawa, Barcos, and Seon, 2160
Fukushima, M. See Hashiba, Fukushima, Chida.

and Kuroki, 5031

Fukushima, S. See Masui, Asamoto, Hirose, Fukushima, and Ito, 5171; Mori, Kurata, Takeu-chi, Toyama, Makino, and Fukushima, 3492; Shirai, Tagawa, Fukushima, Imaida, and Ito,

Fukushima, S., Kawaguchi, T., Nishida, M., Juni, K., Yamashita, Y., Takahashi, M., and Nakano, M. Selective Anticancer Effects of 3',5'-Dioctanoyl-5-fluoro-2'-deoxyuridine, a Lipophilic Prodrug of 5-Fluoro-2'-deoxyuridine, Dissolved in an Oily Lymphographic Agent on Hepatic

Cancer of Rabbits Bearing VX-2 Tumor, 1930 Fukushima, S., Sakata, T., Tagawa, Y., Shibata, M-A., Hirose, M., and Ito, N. Different Modi-fying Response of Butylated Hydroxyanisole, Butylated Hydroxytoluene, and Other Antioxidants in N,N-Dibutylnitrosamine Esopha

and Forestomach Carcinogenesis of Rats, 2113
Fukushima, S., Shibata, M-A., Shirai, T., Kurata, Y., Tamano, S., and Imaida, K. Promotion by L-Ascorbic Acid of Urinary Bladder Carcinog sis in Rats under Conditions of Increased Urinary K Ion Concentration and pH, 4821

Fukuyama, K. See Halldin, Cook, Kawashima. Crutcher, and Fukuyama, 636
Fuller, D. J. M., and Gerner, E. W. Sensitization

of Chinese Hamster Ovary Cells to Heat Shock by α-Difluoromethylornithine, 816

derud, S. See Kvalheim, Fodstad, Pihl, Nustad, Pharo, Ugelstad, and Funderud, 846

Fuqua, S. A. W., Moretti-Rojas, I. M., Schneider, S. L., and McGuire, W. L. P-Glycoprotein Expression in Human Breast Cancer Cells, 2103 Fürstenberger, G. See Fischer, Fürstenberger,

Marks, and Slaga, 3174

Furukawa, K. See Mattes, Look, Furukawa, Pierce, Old, Lewis, and Lloyd, 6741; Mattes, Real, Furukawa, Old, and Lloyd, 6614

Furukawa, Y., Ohta, M., Kasahara, T., Miura, Y., and Saito, M. Constitutive Production of Interleukin 1 by Human Monocytic Leukemia Cell Line JOSK-I and the Production Mechanism,

Furusawa, S. See Mian and Furusawa, 1863

Gabel, D., Holstein, H., Larsson, B., Gille, L., Ericson, G., Sacker, D., Som, P., and Fairchild, R. G. Quantitative Neutron Capture Radiography for Studying the Biodistribution of Tumorseeking Boron-containing Compounds, 5451 Gabriel, A. See Hammond, Gabriel, Paladugu, Azumi, Hill, and Benfield, 5202

Gabriel, A. See Whitehead, Jones, Gabriel, and

Lukies, 2683

Gabrielson, E. W. See Gerwin, Lechner, Reddel, Roberts, Robbins, Gabrielson, and Harris, 6180 Gadson, P. See Gupta, Rajaraman, Gadson, and Costanzi, 5194

Gaillard, E. T. See Zimmerman, Gaillard, and Goldin, 2305

Gajewski, W. H. See Fingert, Chen, Mizrahi, Ga-jewski, Bamberg, and Kradin, 3824Galbraith, A. R. See Wattenberg, Hochalter, and

Galbraith, 4351

Galili, N. See Smith, Morgan, Galili, Amylon,

Link, Hecht, Sklar, and Glader, 1652 Galivan, J., Nimec, Z., and Rhee, M. Synergistic Growth Inhibition of Rat Hepatoma Cells Ex-posed in Vitro to N¹⁰-Propargyl-5,8-dideazafolate with Methotrexate or the Lipophilic Antifolates Trimetrexate or Metoprine, 5256

Gallagher, B. M. See Brown, Comeau, Jones, Liberatore, Neacy, Sands, and Gallagher, 1149 Galli, D. See Ponz de Leon, Roncucci, di Donato

Sacchetti, Pezcoller, Annoni, Bertani, Rebecchi, Balli, Galli, and Carulli, 305

Gallick, G. E. See Maxwell, Kurzrock, Parsons, Talpaz, Gallick, Kloetzer, Arlinghaus, Kouttab, Keating, and Gutterman, 1731; Yoshida, Gallick, Irimura, and Nicolson, 2558

Gallo, E. See Ferrero, Pregno, Tarella, Ruscetti, Pileri, and Gallo, 6413

Galloway, G. J. See Irving, Brooks, Brereton, Galloway, Field, Bell, Harris, Baddeley, and Doddrell, 3901

Gambacorti-Passerini, C., Radrizzani, M., Erba, E., Fossati, G., and Parmiani, G. Lysis by Activated Lymphocytes of Melanoma and Small Cell Lung Cancer Cells Surviving in Vitro Treatment with Mafosfamide, 2547

Gambia Hepatitis Study Group See Hall, Inskip, Loik, Tomatis, Day, O'Conor, Bosch, Muir, Parkin, Muñoz, Greenwood, Whittle, Ryder,

Oldfield, N'jie, Smith, and Coursaget, 5782 Gamou, S., Hunts, J., Harigai, H., Hirohashi, S., Shimosato, Y., Pastan, I., and Shimizu, N. Molecular Evidence for the Lack of Epidermal Growth Factor Receptor Gene Expression in Small Cell Lung Carcinoma Cells, 2668

Gams, R. See Case, Gams, Ervin, Boyd, and Old-

Ganapathi, R., Grabowski, D., Schmidt, H., Bell, D., and Melia, M. Characterization in Vitro and in Vivo of Progressively Adriamycin-resistant B16-BL6 Mouse Melanoma Cells, 3464

Gantt, R., Sanford, K. K., Parshad, R., Price, F. M., Peterson, W. D., Jr., and Rhim, J. S. Enhanced G₂ Chromatid Radiosensitivity, an Early Stage in the Neoplastic Transformation of Human Epidermal Keratinocytes in Culture, 1390

Gao, C. See Wang, Vass, Gao, and Chang, 4192 Gao, Y-T. See Levin, Gao, Blot, Zheng, and Fraumeni, 5777

Garattini, S. See Chiabrando, Broggini, Castelli, Cozzi, Castagnoli, Donelli, Garattini, Giavazzi, and Fanelli, 988

Garbisa, S., Pozzatti, R., Muschel, R. J., Saffiotti, U., Ballin, M., Goldfarb, R. H., Khoury, G., and Liotta, L. A. Secretion of Type IV Collagenolytic Protease and Metastatic Phenotype: Induction by Transfection with c-Ha-ras but not c-Ha-ras plus Ad2-Ela, 1523 Garbo, G. M. See Morgan, Garbo, Kreimer-Birn-

baum, Keck, Chaudhuri, and Selman, 496 Gardner, C. R., Wasserman, A. J., and Laskin, D.

L. Differential Sensitivity of Tumor Targets to Liver Macrophage-mediated Cytotoxicity, 6686 Gardner, J. See Morstyn, Brown, Novak, Gardner, Bishop, and Garson, 3322

Gariglio, P. See Ocadiz, Sauceda, Cruz, Graef, and Gariglio, 4173

Garrecht, B. M. See Franko, Koch, Garrecht, Sharplin, and Hughes, 5367 Garson, M. See Morstyn, Brown, Novak, Gardner,

Bishop, and Garson, 3322

Garte, S. J. See Zelikoff, Garte, Belman, Feuerstein, and Cooper, 329

Garte, S. J., Currie, D. D., and Troll, W. Inhibition of H-ras Oncogene Transformation of NIH3T3 Cells by Protease Inhibitors, 3159

Garvey, L. K. See Conway, Neptun, Garvey, and

Popp, 4795
Gas, N. See Valette, Gas, Jozan, Roubinet, Dupont, and Bayard, 1615

Gasic, G. J. See Tuszynski, Gasic, Rothman, Knudsen, and Gasic, 4130

Gasić, M. J. See Müller, Sladić, Zahn, Bässler, Dogović, Gerner, Gasić, and Schröder, 6565 Gasic, T. B. See Tuszynski, Gasic, Rothman,

Knudsen, and Gasic, 4130 Gatti, R. A. See Lehmann, Jaspers, and Gatti, 4750

Gaur, P. K. See Bray, Koda, and Gaur, 5853

Gay, H. See Stephenson, James, Gay, Fair, Whit-more, and Melamed, 2504

Gazdar, A. F. See Bepler, Carney, Gazdar, and Minna, 2371; Bepler, Jaques, Havemann, Koehler, Johnson, and Gazdar, 1883; Carmichael, DeGraff, Gazdar, Minna, and Mitchell, 936, 943; Park, Kramer, Steinberg, Carmichael, Collins, Minna, and Gazdar, 5875; Park, Oie, Sugarbaker, Henslee, Chen, Johnson, and Gazdar, 6710

Gazet, J-C. See Coombes, Powles, Easton, Chilvers, Ford, Smith, McKinna, White, Bradbeer, Yarnold, Nash, Bettelheim, Dowsett, Gazet, and Investigators of the Collaborative Breast Cancer Project, 2494; McClelland, Berger, Wilson, Powles, Trott, Easton, Gazet, and Coombes, 6118

Gebhard, R. See Bear, Clayman, Elbers, Limas, Wang, Stone, Gebhard, Prigge, and Palmer. 3856

Geddie, N. G. See Rice, Weyand, Geddie, De-Floria, and LaVoie, 6166

Gee, A. See Mehta, Lawson, Ward, Kimura, and Gee, 3115

Geelhaar, L. A. See Egorin, Zuhowski, Cohen, Geelhaar, Callery, and Van Echo, 6142

Gelber, R. D. See Hedley, Rugg, and Gelber, 4729 Gelboin, H. V. See Anderson, Ward, Park, Jones, Junker, Gelboin, and Rice, 6079; Ko, Park, Song, Patten, Tan, Hah, Yang, and Gelboin, 3101

Gelin, J. See Ternell, Moldawer, Lönnroth, Gelin, and Lundholm, 5825

Gendler, S. See Burchell, Gender lor-Papa-dimitriou, Girling, Lewis, M 24 Lamport,

Gensler, H. L., Watson, R. R., Moriguchi, S., and Bowden, G. T. Effects of Dietary Retinyl Palmitate or 13-cis-Retinoic Acid on the Promotion of Tumors in Mouse Skin, 967

George, G. D. See Ruenitz, Arrendale, George, Thompson, Mokler, and Nanavati, 4015

Gerbaud, P. See Plet, Evain-Brion, Gerbaud, and Anderson, 5831

Gerber, H. See Smeds, Peter, Jörtsö, Gerber, and Studer, 1646

Gerlach, J. H. See Mirski, Gerlach, and Cole, 2594 Germain, G. See Houghton, Houghton, Germain,

and Torrance, 2117
Germolec, D. R. See Luster, Germolec, Burleson, Jameson, Ackermann, Lamm, and Hayes, 2259 Gerner, E. W. See Carper, Duffy, and Gerner,

5249; Fuller and Gerner, 816 Gerner, H. See Müller, Sladić, Zahn, Bässler, Dogović, Gerner, Gasić, and Schröder, 6565

Geroni, C. See Barbieri, Giuliani, Bordoni, Cas azza, Geroni, Bellini, Suarato, Gioia, Penco, and Arcamone, 4001

Gerson, S. L., Trey, J. E., Miller, K., and Benjamin, E. Repair of O⁶-Alkylguanine during DNA Synthesis in Murine Bone Marrow Hematopoietic Precursors, 89

Gerwin, B. I., Lechner, J. F., Reddel, R. R., Roberts, A. B., Robbins, K. C., Gabrielson, E. W., and Harris, C. C. Comparison of Production of Transforming Growth Factor-β and Platelet-derived Growth Factor by Normal Human Meso-thelial Cells and Mesothelioma Cell Lines, 6180

Geurts van Kessel, A. H. M. See Collard, van de Poll, Scheffer, Roos, Hopman, Geurts van Kessel, and van Dongen, 6666

Geyer, M. A. See Kim, Kim, Geyer, and Howell, 3935

Ghanem, G. E. See Leieune and Ghanem, 639 Ghazarian, D. M. See Rushmore, Ghazarian, Subrahmanyan, Farber, and Ghoshal, 6731

Ghelarducci, L. See De Flora, Petruzzelli, Camoir-ano, Bennicelli, Romano, Rindi, Ghelarducci, and Giuntini, 4740

Ghosh, B. See Keenan, Weinstein, Carrasquillo, Bunn, Reynolds, Foon, Smarte, Ghosh, Fejka, Larson, and Mulshine, 6093 Ghoshal, A. K. See Rushmore, Ghazarian, Subrah-

manyan, Farber, and Ghoshal, 6731 Giaccia, A. See Stamato, Peters, Patil, Denko,

Weinstein, and Giaccia, 1588
Giacomini, P., Viora, M., Tecce, R., Knowles, D.
M., Natali, P. G., and Ferrone, S. A Cytoplasmic Human Melanoma Associated Antigen as a Marker of Activation in Lymphoid Cells, 5175

Giannini, M. See Podo, Carpinelli, Di Vito, Giannini, Proietti, Fiers, Gresser, and Belardelli, 6481

Giavazzi, R. See Chiabrando, Broggini, Castelli, Cozzi, Castagnoli, Donelli, Garattini, Giavazzi, and Fanelli, 988

Giblin, J. R. See Ali-Osman, Giblin, Dougherty, and Rosenblum, 3718; Rutka, Giblin, Apodaca, DeArmond, Stern, and Rosenblum, 3515

Gibson, N. W. See Stevens, Hickman, Langdon, Chubb, Vickers, Stone, Baig, Goddard, Gibson, Slack, Newton, Lunt, Fizames, and Lavelle, 5846

Gibson, R. E. See McManaway, Jagoda, Kasid,

Eckelman, Francis, Larson, Gibson, Reba, and Lippman, 2945

Gibson S. L. See Murant Gibson and Hilf 4323 Gibson-D'Ambrosio, R. E. See Chang, Trosko, El-Fouly, Gibson-D'Ambrosio, and D'Ambrosio,

1034 Gierthy, J. F., Lincoln, D. W., Gillespie, M. B., Seeger, J. I., Martinez, H. L., Dickerman, H. W., and Kumar, S. A. Suppression of Estrogen-regulated Extracellular Tissue Plasminogen Activator Activity of MCF-7 Cells by 2,3,7,8-Tetrachlorodibenzo-p-dioxin, 6198

Gilbert, C. S. See Parmley, Akin, Barton, Gilbert, and Kinkade, 4932

Gille, L. See Gabel, Holstein, Larsson, Gille, Ericson, Sacker, Som, and Fairchild, 5451 Gillespie, M. B. See Gierthy, Lincoln, Gillespie

Seeger, Martinez, Dickerman, and Kumar, 6198 Gillner, M., Brittebo, E. B., Brandt, I., Söderkvist, P., Appelgren, L-E., and Gustafsson, J-A. Uptake and Specific Binding of 2,3,7,8-Tetrachlo-rodibenzo-p-dioxin in the Olfactory Mucosa of Mice and Rats, 4150

Gilmer, T. M., Lamb, P. W., Oshimura, M., and Barrett, J. C. Correlation of V-src Gene Amplification with the Tumorigenic Phenotype in a

Syrian Hamster Embryo Cell Line, 4663 illmour, S. K., Verma, A. K., Madara, T., and O'Brien, T. G. Regulation of Ornithine Decar-boxylase Gene Expression in Mouse Epidermis and Epidermal Tumors during Two-Stage Tumorigenesis, 1221

Gingras, M-C. See Greenberg, Egan, Jarolim, Gin-

gras, and Wright, 4801

ioanni, J., Samson, M., Zanghellini, E., Mazeau, C., Ettore, F., Demard, F., Chauvel, P., Duplay, H., Schneider, M., Laurent, J.C., and Lalanne, C. M. Characterization of a New Surface Epitope Specific for Human Epithelial Cells Defined by a Monoclonal Antibody and Application to Tumor Diagnosis, 4417

Gioia, B. See Barbieri, Giuliani, Bordoni, Casazza, Geroni, Bellini, Suarato, Gioia, Penco, and Ar-

Gionet, M. See Hnatowich, Gionet, Rusckowski, Siebecker, Roche, Shealy, Mattis, Wilson, Hunter, Griffin, and Doherty, 6111

Giovanella, B. C. See Corbett, Nunnally, Giovanella, and Antich, 5065; Tainsky, Shamanski, Blair, and Giovanella, 3235

Girard, P. R. See Shoji, Girard, Charp, Koeffler, Vogler, and Kuo, 6363

Girard, P. R., Stevens, V. L., Blackshear, P. J., Merrill, A. H., Jr., Wood, J. G., and Kuo, J. F. Immunocytochemical Evidence for Phorbol Ester-induced Directional Translocations of Protein Kinase C in HL60, K562, CHO, and E7SKS Cells: Possible Role in Differentiation, 2892

Girling, A. See Burchell, Gendler, Taylor-Papadimitriou, Girling, Lewis, Millis, and Lamport, 5476

Giroix, M-H. See Sener, Giroix, Hellerström, and Malaisse, 5905

Gissmann, L. See Klingel, Mincheva, Kahn, Gissmann, Dippold, Meyer zum Büschenfelde, and zur Hausen, 4485

Gitelman, I., Dexter, D. F., and Roder, J. C. DNA Amplification and Metastasis of the Human Melanoma Cell Line MeWo, 3851

Giuliani, F. C. See Barbieri, Giuliani, Bordoni, Casazza, Geroni, Bellini, Suarato, Gioia, Penco, and Arcamone, 4001

Giuntini, C. See De Flora, Petruzzelli, Camoirano, Bennicelli, Romano, Rindi, Ghelarducci, and Giuntini, 4740

Glader, B. E. See Smith, Morgan, Galili, Amylon, Link, Hecht, Sklar, and Glader, 1652

Glass, J. D. See Coderre, Glass, Fairchild, Roy, Cohen, and Fand, 6377

Glassy, M. C. Immortalization of Human Lymphocytes from a Tumor-involved Lymph Node,

Glatt, H. See Utesch, Glatt, and Oesch, 1509 Glatt, H., Eich, E., Pertz, H., Becker, C., and Oesch, F. Mutagenicity Experiments on Agroclavines, New Natural Antineoplastic Compounds, 1811

Glauser, F. L. See Fairman, Glauser, Merchant,

Bechard, and Fowler, 3528

Glazer, R. I. See Begleiter, Glazer, Israels, Pugh, and Johnston, 2498

Gleyzer, E. See Hindenburg, Baker, Gleyzer, Stewart, Case, and Taub, 1421

Glickman, L. T., Suissa, S., and Fleiszer, D. M. Proliferative Characteristics of Colonic Crypt Cells in C57BL/6J and A/J Mice as Predictors of Subsequent Tumor Formation, 4766

Glover, C. J. See Safa, Glover, and Felsted, 5149 Glover, P. L. See Stowers, Glover, Reynolds,

Boone, Maronpot, and Anderson, 3212
Gmeiner, B., and Wolf, G. Comparison of Cellassociated and Soluble Galactosyltransferase Isoenzymes from a Human Bladder Transitional Cell Carcinoma Line, 2311

Go, B. See Casero, Go, Theiss, Smith, Baylin, and Luk. 3964

Gockerman, J. See Goldstein, Gockerman, Krishnan, Ritchie, Tso, Hood, Ellinwood, and Laszlo, 6397; Peters, Henner, Grochow, Olsen, Edwards, Stanbuck, Stuart, Gockerman, Moore, Bast, Seigler, and Colvin, 6402

Godal, A., Fodstad, Ø., and Pihl, A. Studies on the Mechanism of Action of Abrin-9.2.27 Immunotoxin in Human Melanoma Cell Lines, 6243

Goddard, C. See Stevens, Hickman, Langdon, Chubb, Vickers, Stone, Baig, Goddard, Gibson, Slack, Newton, Lunt, Fizames, and Lavelle, 5846

Goddard, G. J. See Leroyer, Werner, Shaughnessy,

Goddard, and Orr, 4771
Goeddel, D. V. See Derynck, Goeddel, Ullrich, Gutterman, Williams, Bringman, and Berger,

Gohji, K., Maeda, S., Sugiyama, T., and Kamidon S. Establishment of a Human Urachal Adeno-carcinoma Cell Line (KO-BT-1) and Its Chemosensitivity, 4941

Goka, T. J. See Lichtner, Goka, Butcher, and Nicolson, 1870

Golas, C. L. See Manchester, Gordon, Golas, Rob-

erts, and Okey, 4861 Goldberg, D. See Carr, Rahbar, Doroshow, Blayney, Goldberg, Leong, and Asmeron, 419

Goldblatt, P. J. See Branstetter, Stoner, Schut, Senitzer, Conran, and Goldblatt, 348 Goldenberg, D. M. See Fand, Sharkey, Primus,

Cohen, and Goldenberg, 2177; Sharkey, Pykett, Siegel, Alger, Primus, and Goldenberg, 5672 Goldenberg, G. J. See Blosmanis, Wright, and Goldenberg, 1273; Murphy, Lee-Wing, Golden-

berg, and Shiu, 4160 Goldfarb, R. H. See Garbisa, Pozzatti, Muschel, Saffiotti, Ballin, Goldfarb, Khoury, and Liotta,

1523 Goldin, A. See Zimmerman, Gaillard, and Goldin. 2305

Goldsmith, M. E. See Fairchild, Ivy, Kao-Shan, Whang-Peng, Rosen, Israel, Melera, Cowan, and Goldsmith, 5141

Goldstein, D., Gockerman, J., Krishnan, R., Ritchie, J., Jr., Tso, C. Y., Hood, L. E., Ellinwood, E., and Laszlo, J. Effects of γ-Interferon on the Endocrine System: Results from Phase I Study, 6397

Goldstein, N. O. See Ritter, Rutman, and Gold-

Golub, L. M. See Zucker, Wieman, Lysik, Wilkie, Ramamurthy, Golub, and Lane, 1608

Gombar, C. T., Pylypiw, H. M., Jr., and Harring-ton, G. W. Pharmacokinetics of N-Nitrosodimethylamine in Beagles, 343

Goodman, G. E., Yen, Y. P., Cox, T. C., and Crowley, J. Effect of Verapamil on in Vitro Cytotox-icity of Adriamycin and Vinblastine in Human Tumor Cells, 2295

Gopalakrishna, R. See Barsky and Gopalakrishna,

Gordon, I. L., Kar, R., Opfell, R. W., and Wile, A. G. Pharmacokinetics of Hexamethylmelamine in Intralipid following Hepatic Regional Administration in Rabbits, 5070

Gordon, S. K. See Manchester, Gordon, Golas, Roberts, and Okey, 4861

Gorelik, E. Augmentation of the Antimetastatic Effect of Anticoagulant Drugs by Immunostimulation in Mice, 809

Gorelik, E., Ovejera, A., Shoemaker, R., Jarvis, A., Alley, M., Duff, R., Mayo, J., Herberman, R. B., and Boyd, M. Microencapsulated Tumor Assay: New Short-Term Assay for in Vivo Evaluation of the Effects of Anticancer Drugs on Human

Tumor Cell Lines, 5739
Goren, M. P., Ahmed, N. K., and Tereba, A. Use
of Somatic Cell Hybrids to Analyze Role of Specific Enzymes in Daunorubicin Cytotoxicity,

Goren, M. P., Wright, R. K., Pratt, C. B., Horowitz, M. E., Dodge, R. K., Viar, M. J., and Kovnar, E. H. Potentiation of Hosfamide Neurotoxicity, Hematotoxicity, and Tubular Nephrotoxicity by Prior cis-Diamminedichloroplatinum(II) Therару, 1457

Goridis, C. See Lipinski, Braham, Philip, Wiels, Philip, Goridis, Lenoir, and Tursz, 183 Gorschboth, C. M. See Inculet, Stein, Peacock,

Leskiw, Maher, Gorschboth, and Norton, 4746; Peacock, Gorschboth, and Norton, 4318 Gorstein, F. See Thor, Muraro, Gorstein, Ohuchi,

Viglione, Szpak, Johnston, and Schlom, 505 Goss, P. E. See Dowsett, Goss, Powles, Hutchin-

son, Brodie, Jeffcoate, and Coombes, 1957 Gottardis, M. M., and Jordan, V. C. Antitumor Actions of Keoxifene and Tamoxifen in the N-Nitrosomethylurea-induced Rat Mammary Carcinoma Model, 4020

Gottesman, M. M. See Lyall, Hwang, Cardarelli, FitzGerald, Akiyama, Gottesman, and Pastan,

Gottfried, T. G. See Ranken, White, Gottfried, Yonkovich, Blazek, Moss, Fee, and Liu, 5684 Gould, M. N. See Moore, Eldridge, Tricomi, and

Gould, 2609; Moore, Pruess-Schwartz, Mauthe, Gould, and Baird, 4402

Goustin, A. S. See Coffey, Goustin, Soderquist, Shipley, Wolfshohl, Carpenter, and Moses, 4590

Gout, P. W. Transient Requirement for Prolactin as a Growth Initiator following Treatment of Autonomous Nb2 Node Rat Lymphoma Cell Cultures with Butyrate, 1751

Goyette, M. See Braun, Goyette, Yaswen, Thompson, and Fausto, 4116

Grabowski, D. See Ganapathi, Grabowski, Schmidt, Bell, and Melia, 3464

Grady, E. F., Schwab, M., and Rosenau, W. Expression of N-myc and c-src during the Development of Fetal Human Brain, 2931

Graef, A. M. See Ocadiz, Sauceda, Cruz, Graef,

and Gariglio, 4173
Grafstrom, R. C. See Willey, Grafstrom, Moser,
Ozanne, Sundqvist, and Harris, 2045 Graham, S. See Reale, Griffin, Compton, Graham,

Townes, and Bogden, 3199

Gralla, J. D., Sasse-Dwight, S., and Poljak, L. G.
Formation of Blocking Lesions at Identical
DNA Sequences by the Nitrosourea and Platinum Classes of Anticancer Drugs, 5092

Granowska, M. See Ward, Mather, Hawkins, Crowther, Shepherd, Granowska, Britton, and

Slevin, 4719

Grant, C. K. See Singhal, Singhal, Nudelman,

Hakomori, Balint, Grant, and Snyder, 5566 Graziano, S. L., Cowan, B. Y., Carney, D. N., Bryke, C. R., Mitter, N. S., Johnson, B. E., Mark, G. E., Planas, A. T., Catino, J. J., Comis, R. L., and Poiesz, B. J. Small Cell Lung Cancer Cell Line Derived from a Primary Tumor with a Characteristic Deletion of 3p, 2148 Graziano, S. L., Lehr, B. M., Merl, S. A., Ehrlich, G. D., Moore, J. L., Hallinan, E. J., Hubbell, C.,

Davey, F. R., Vournakis, J., and Poiesz, B. J. Quantitative Assay of Human T-Cell Leukemia/Lymphoma Virus Transformation, 2468

Green, A. A. See Brodeur, Hayes, Green, Casper, Wasson, Wallach, and Seeger, 4248

Green, A. P. See Valerie, Green, de Riel, and Henderson, 2967

Green, A. W. See Schleicher, Green, and Beattie, 4465 Green, D. See Schein, Green, Dean, and Mc-

Pherson, 696

Green, H., Boll, J., Parrish, J. A., Kochevar, I. E., and Oseroff, A. R. Cytotoxicity and Mutagenicity of Low Intensity, 248 and 193 nm Excimer

Laser Radiation in Mammalian Cells, 410 Green, I. See Gregg, Gregg, and Green, 723 Green, J. A. See Mandel, Manson, Judah, Simpson, Green, Forrester, Wolf, and Neal, 5218

Green, M. D., and Tephly, T. R. N-Glucuronida-tion of Carcinogenic Aromatic Amines Catalyzed by Rat Hepatic Microsomal Preparations and Purified Rat Liver Uridine 5'-Diphosphate-

Glucuronosyltransferases, 2028 Greenberg, A. H., Egan, S. E., Jarolim, L., Gingras, M-C., and Wright, J. A. Natural Killet Cell Regulation of Implantation and Early Lung Growth of H-ras-transformed 10T1/2 Fibroblasts

in Mice, 4801

Greenberg, D. A., Carpenter, C. L., and Messing, R. O. Calcium Channel Antagonist Properties of the Antineoplastic Antiestrogen Tamoxifen in the PC12 Neurosecretory Cell Line, 70 Greene, B. See Carter, James, Chan, and Greene,

Greene, K. See Kramer, Greene, Ahmad, and Vis-

tica, 1593 Greengard, O. See Bhargava, Head, Bailey, and

Greengard, 6262

Greenwood, B. See Hall, Inskip, Loik, Tomatis, Day, O'Conor, Bosch, Muir, Parkin, Muñoz, Greenwood, Whittle, Ryder, Oldfield, N'jie, Smith, and Coursaget, 5782

Greer, S. See Boothman, Briggle, and Greer, 2344, 2354; Boothman, Greer, and Pardee, 5361 Greer, W. L. See Prasad, Greer, Severini, and

Kaplan, 5397

Gregg, E. O., Gregg, I. C., and Green, I. Generation of Lymphokine-activated Killer Cells in Strain 2 Guinea Pigs and Their Use in the Therapy of L2C, an Acute B-Cell Leukemia, 723

Gregg, I. C. See Gregg, Gregg, and Green, 723 Gregg, M. See McLemore, Liu, Blacker, Gregg, Alley, Abbott, Shoemaker, Bohlman, Litterst, Hubbard, Brennan, McMahon, Fine, Eggleston, Mayo, and Boyd, 5132

Greig, N. H., Momma, S., Sweeney, D. J., Smith, Q. R., and Rapoport, S. I. Facilitated Transport of Melphalan at the Rat Blood-Brain Barrier by the Large Neutral Amino Acid Carrier System.

Greig, R. G. See Koestler, Johnson, Rieman, Dal-

ton, Greig, and Poste, 2804 Grem, J. See Trump, Tutsch, Willson, Remick, Simon, Alberti, Grem, Koeller, and Tormey,

Gresser, I. See Podo, Carpinelli, Di Vito, Giannini, Proietti, Fiers, Gresser, and Belardelli, 6481 Grever, M. R. See Leiby, Snider, Kraut, Metz,

Malspeis, and Grever, 2719

Griffin, T. W. See Hnatowich, Gionet, Rusckowski, Siebecker, Roche, Shealy, Mattis, Wilson, Hunter, Griffin, and Doherty, 6111; Reale, Griffin, Compton, Graham, Townes, and Bogden, 3199

Griffin, T. W., Richardson, C., Houston, L. L., LePage, D., Bogden, A., and Raso, V. Antitumor Activity of Intraperitoneal Immunotoxins in a Nude Mouse Model of Human Malignant Mesothelioma, 4266

Griffioen, G. See de Bruin, Griffioen, Verspaget,

Verheijen, and Lamers, 4654 Griffiths, H. See Fish, Shelley, Griffiths, Adams, Egorin, and Forrest, 3606

Grill, S. P. See Nutter, Grill, Li, Tan, and Cheng, 4407

Grillo-Lopez, A. See Lin, Cashmore, Baker, Dreyer, Ernstoff, Marsh, Bertino, Whitfield, Delap, and Grillo-Lopez, 609 Grinstein, S. See Rotin, Wan, Grinstein, and Tan-

nock, 1497

nock, 1497
Grisham, J. W. See Tsao and Grisham, 1282
Griswold, D. P., Jr. See Plowman, Harrison,
Trader, Griswold, Chadwick, McComish, Silveira, and Zaharko, 685
Griswold, D. P., Jr., Trader, M. W., Frei, E., III,
Peters, W. P., Wolpert, M. K., and Laster, W.
R., Jr. Response of Drug-sensitive and resistant L1210 Leukemias to High-Dose Chemotherapy,

Grochow, L. B. See Peters, Henner, Grochow, Olsen, Edwards, Stanbuck, Stuart, Gockerman, Moore, Bast, Seigler, and Colvin, 6402; Rowinsky, Ettinger, McGuire, Noe, Grochow, and Donehower, 5788

Groetsema, G. See Bjorn and Groetsema, 6639 Gronberg, A. See Tonini, Radzioch, Gronberg,

Clayton, Blasi, Benetton, and Varesio, 4544
Groopman, J. D. See Kensler, Egner, Dolan,
Groopman, and Roebuck, 4271
Groothuis, D. R. See Blasberg, Nakagawa, Bourdon, Groothuis, Patlak, and Bigner, 4432; Warnke, Friedman, Bigner, and Groothuis, 1687

Gros, P. See Auclair, Pierre, Voisin, Pepin, Cros, Colas, Saucier, Verschuere, Gros, and Paoletti, 6254

Gros, P. See Croop, Guild, Gros, and Housman, 5982

Gross, A. See Rieber, Gross, and Rieber, 5127 Grossi, C. E. See Landay, Zarcone, Grossi, and Bauer, 2767; Zarcone, Tilden, Friedman, and Grossi, 2674

Grossie, V. B., Jr., Ota, D. M., Ajani, J. A., and Nishioka, K. Effect of Intravenous α-Difluoromethylornithine on the Polyamine Levels of Normal Tissue and a Transplantable Fibrosarcoma, 1836

Grotzinger, K. R. See Pehrens, Hamilton, Masuda, Grotzinger, Whang-Peng, Louie, Knutsen, McKoy, Young, and Ozols, 414

Groveman, D. S. See Ruzicka, Schmid, Groveman,

Cummings, and Borden, 4582 Groyer-Picard, M-T. See Perrot-Applanat, Groyer-Picard, Lorenzo, Jolivet, Hai, Pallud,

Spyratos, and Milgrom, 2652 ruenke, L. D., Wrensch, M. R., Petrakis, N. L., Milke, R., Ernster, V. L., and Craig, J. C. Breast Fluid Cholesterol and Cholesterol Epoxides: Relationship to Breast Cancer Risk Factors and Other Characteristics, 5483

Grufferman, S. See Yu, Henderson, Austin, Del-zell, Cole, Grufferman, Levine, Morrison, and

Stolley, 654

Grunberg, S. M., Kempf, R. A., Venturi, C. L., and Mitchell, M. S. Phase I Study of Recombinant β-Interferon Given by Four-Hour Infusion, 1174

Grunberger, D. See Arce, Allen, Doerr, Elmore, Hatch, Moore, Sharief, Grunberger, and Nesnow, 3388

Grutter, M. G. See Fidler, Heicappell, Saiki, Grutter, Horisberger, and Nuesch, 2020
Gubler, M. L. See Rundhaug, Gubler, Sherman,

Blaner, and Bertram, 5637

Guengerich, F. P. See El Mouelhi, Didolkar, Elias, Guengerich, and Kauffman, 460

Guernsey, D. L., and Leuthauser, S. W. C. Correlation of Thyroid Hormone Dose-dependent Regulation of K-ras Protooncogene Expression with Oncogene Activation by 3-Methylcholanthrene: Loss of Thyroidal Regulation in the Transformed Mouse Cell, 3052

Guild, B. C. See Croop, Guild, Gros, and Housman, 5982

Guillem, J. G., O'Brian, C. A., Fitzer, C. J., Forde, K. A., LoGerfo, P., Treat, M., and Weinstein, I. B. Altered Levels of Protein Kinase C and Ca²⁺dependent Protein Kinases in Human Colon

Carcinomas, 2036
Guillemin, M-C. See Pancino, Charpin, Calvo,
Guillemin, and Roseto, 4444

Guinan, P. D. See Rubenstein, Shaw, McKiel, Ray, and Guinan, 178

Guislain, Y. L. See Perchellet, Abney, Thomas, Guislain, and Perchellet, 477

Gulati, S. See Chang, Gulati, Chou, Colvin, and Clarkson, 119

Gullino, P. M. See Alessandri, Filippeschi, Sinibaldi, Mornet, Passera, Spreafico, Cappa, and Gullino, 4243

Gumkowski, F. See Auerbach, Lu, Pardon, Gumkowski, Kaminska, and Kaminski, 1492

Gundlach, N. See Menter, Steinert, Sloane, Gundlach, O'Gara, Marnett, Diglio, Walz, Taylor, and Honn, 6751

Gupta, S. See Meador, Sweet, Stupecky, Wetzel, Murray, Gupta, and Slater, 6216 Gupta, V., and Costanzi, J. J. Role of Hypoxia in

Anticancer Drug-induced Cytotoxicity for Ehr-lich Ascites Cells, 2407

Gupta, V., Rajaraman, S., Gadson, P., and Costanzi,

J. J. Primary Transfection as a Mechanism for Transformation of Host Cells by Human Tumor

Cells Implanted in Nude Mice, 5194 Gurtoo, H. L. See Bernacki, Bansal, and Gurtoo,

Gustafsson, J-A. See Gillner, Brittebo, Brandt, Söderkvist, Appelgren, and Gustafsson, 4150

Gutman, R. See Chang, Gutman, and Chou, 2247 Gutterman, J. U. See Blick, Sherwin, Rosenblum, and Gutterman, 2986; Derynck, Goeddel, Ullrich, Gutterman, Williams, Bringman, and Berger, 707; Eisbruch, Blick, Lee, Sacks, and Gutterman, 3603; Maxwell, Kurzrock, Parsons, Talpaz, Gallick, Kloetzer, Arlinghaus, Kouttab, Keating, and Gutterman, 1731

Guzman, R. C., Osborn, R. C., Bartley, J. C., Imagawa, W., Asch, B. B., and Nandi, S. In Vitro Transformation of Mouse Mammary Epithelial Cells Grown Serum-free inside Collagen Gels,

H

Haagensen, D. See Chalbos, Haagensen, Parish,

and Rochefort, 2787 Haagensen, D. E., Jr., Metzgar, R. S., Sawlivich, W., Swenson, B., Davis, S., Newman, E., Zamcheck, N., Wells, S. A., Jr., and Hansen, H. J. Evaluation of Chimpanzee Antiserum to Human Carcinoembryonic Antigen, 5606

Haavik, J. See Øgreid, Cho-Chung, Ekanger, Vintermyr, Haavik, and Døskeland, 2576 Hada, T. See Tamura, Fujioka, Nakano, Hada,

and Higashino, 6138

Haddada, H. See Akagi, Murai, Haddada, Levine,

and Patch, 4086

egele, K. D., Splinter, T. A. W., Romijn, J. C., Schechter, P. J., and Sjoerdsma, A. Decarboxylated-S-adenosylmethionine Excretion: A Biochemical Marker of Ornithine Decarboxylase Inhibition by α-Difluoromethylornithine, 890

Haffen, K. See Simon-Assmann, Bouziges, Daviaud, Haffen, and Kedinger, 4478

Hagiwara, K-I. See Hamada, Hagiwara, Nakajima, and Tsuruo, 2860

Hah, Y. C. See Ko, Park, Song, Patten, Tan, Hah, Yang, and Gelboin, 3101

Hahn, G. M. See Stevenson, Calderwood, and Hahn, 3712

Hai, M. T. V. See Perrot-Applanat, Groyer-Picard, Lorenzo, Jolivet, Hai, Pallud, Spyratos, and Milgrom, 2652

Haim, N., Nemec, J., Roman, J., and Sinha, B. K. Peroxidase-catalyzed Metabolism of Etoposide (VP-16-213) and Covalent Binding of Reactive intermediates to Cellular Macromolecules,

Haimoto, H. See Kato, Asano, Kamiya, Haimoto, Hosoda, Nagasaka, Ariyoshi, and Ishiguro, 5800

Hain, R. See Bowdon, Waud, Wheeler, Hain, Dansby, and Temple, 1621

Hakomori, S-i. See Nitta, Takayanagi, Kawauchi, and Hakomori, 4877; Singhal, Singhal, Nudel-man, Hakomori, Balint, Grant, and Snyder, 5566

Haleem, A., Kurtzberg, J., Olsen, G. A., Rhine-hardt-Clark, A., Leslie, D. S., Ray, L., Smith, C. A., Peters, W. P., Haynes, B. F., and Bast, R. C., Jr. Combined Chemoseparation and Immunoseparation of Clonogenic T Lymphoma Cells from Human Bone Marrow Using 2'-Deoxycoformycin, Deoxyadenosine, 3A1 Monoclonal Antibody, and Complement, 4608

Halenbeck, R. See Doyle, Koths, Brindley, Fong, Halenbeck, Ransom, Pomato, Cleveland, Mc-

Cabe, and Hanna. 914

Haley, N. J. See Schiffman, Haley, Felton, Andrews, Kaslow, Lancaster, Kurman, Brinton, Lannom, and Hoffmann, 3886

Halgunset, J. See Tvedt, Kopstad, Haugen, and Halgunset, 323

Hall, A. See Robson, Lewis, Wolf, Hayes, Hall, Proctor, Harris, and Hickson, 6022

Hall, A. J., Inskip, H. M., Loik, F., Tomatis, L., Day, N. E., O'Conor, G., Bosch, X., Muir, C. S., Parkin, M., Muñoz, N., Greenwood, B., Whittle, H., Ryder, R., Oldfield, F. S. J., N'jie, A. B. H.,

Smith, P. G., and Coursaget, P. The Gambia Hepatitis Intervention Study, 5782 Hall, E. R. See Liehr, Hall, Avitts, Randerath, and

Randerath, 2156

Hall, R. E. See Ely, Leftwich, Chenevix-Trench, Hall, and Westin, 4595; Leftwich, Carlson, Adelman, and Hall, 1319

Halldin, M. M., Cook, W. S., Jr., Kawashima, T., Crutcher, W. A., and Fukuyama, K. Identification of 5-S-Cysteinyldopa by High Performance Liquid Chromatography in Biopsies from Patients with Dysplastic Melanocytic Nevi, 636 Hallinan, E. J. See Graziano, Lehr, Merl, Ehrlich,

Moore, Hallinan, Hubbell, Davey, Vournakis,

and Poiesz, 2468

Halper, J., and Moses, H. L. Purification and Characterization of a Novel Transforming Growth Factor, 4552

Halsey, H. See Augenlicht, Wahrman, Halsey, Anderson, Taylor, and Lipkin, 6016

Halsey, J. See Coleman, Halsey, Cox, Hirst, Blaschke, Howes, Wasserman, Urtasun, Pajak, Hancock, Phillips, and Noll, 319

Halter, S. See Brenner, Anthony, Halter, Harris, Collins, and Hande, 3259

Hamada, H. See Yamashita, Hamada, Tsuruo, and Ogata, 3736

Hamada, H., Hagiwara, K-I., Nakajima, T., and Tsuruo, T. Phosphorylation of the Mr 170,000 to 180,000 Glycoprotein Specific to Multidrugresistant Tumor Cells: Effects of Verapamil. Trifluoperazine, and Phorbol Esters, 2860

Hamazaki, S. See Li, Okada, Hamazaki, Ebina, and Midorikawa, 1867

Hamburg, R. J. See Miller, Hamburg, and Ferrara, 3589

Hamburger, A. W., Lurie, K. A., and Condon, M. E. Stimulation of Anchorage-independent Growth of Human Tumor Cells by Interleukin 1, page 5612

Hamby, C. V. See Liao, Smith, Kwong, Natali, Kusama, Hamby, and Ferrone, 4835

Hamby, C. V., Liao, S-K., Kanamaru, T., and Ferrone, S. Immunogenicity of Human Melanomaassociated Antigens Defined by Murine Monoclonal Antibodies in Allogeneic and Xenogeneic

Hamelehle, K. L. See Sebolt, Scavone, Pinter, Hamelehle, Von Hoff, and Jackson, 4299 Hamilton, P. D. See Fernandez-Pol, Klos, Hamil-

ton, and Talkad, 4260

Hamilton, S. R. See Fiala, Sohn, and Hamilton, 5939; Sohn, Fiala, Puz, Hamilton, and Williams, 3123; Vogelstein, Fearon, Hamilton, Preisinger, Willard, Michelson, Riggs, and Orkin, 4806

Hamilton, S. R., Hyland, J., McAvinchey, D., Chaudhry, Y., Hartka, L., Kim, H. T., Cichon, P., Floyd, J., Turjman, N., Kessie, G., Nair, P. P., and Dick, J. Effects of Chronic Dietary Beer and Ethanol Consumption on Experimental Colonic Carcinogenesis by Azoxymethane in Rats,

Hamilton, S. R., Sohn, O. S., and Fiala, E. S. Effects of Timing and Quantity of Chronic Dietary Ethanol Consumption on Azoxymethaneinduced Colonic Carcinogenesis and Azoxymethane Metabolism in Fischer 344 Rats, 4305

Hamilton, T. C. See Behrens, Hamilton, Masuda, Grotzinger, Whang-Peng, Louie, Knutsen, McKoy, Young, and Ozols, 414; FitzGerald, Bjorn, Ferris, Winkelhake, Frankel, Hamilton, Ozols, Willingham, and Pastan, 1407

Hämmerling, G. J. See Alon, Hämmerling, Segal,

and Bar-Eli, 2553; Momburg, Moldenhauer, Hämmerling, and Möller, 2883 Hammond, W. G., Gabriel, A., Paladugu, R. R., Azumi, N., Hill, L. R., and Benfield, J. R. Differential Susceptibility to Bronchial Carcinogen-

esis in Syngeneic Hamsters, 5202 Hampar, B. See Koff, Dunegan, Chakrabarty, Hampar, and Showalter, 1534 Hampton, N. See Elliott, Carlow, Ivimey, Arnold,

Hampton, and Bosman, 4915 Han, Z. T. See Smart, Huang, Han, Kaplan, Fo-

cella, and Conney, 6633
Hanai, A. See Okuda, Fujimoto, Hanai, and Urano, 4967

Hanai, N. See Shitara, Hanai, and Yoshida, 1267 Hanaoka, F. See Eki, Enomoto, Murakami, Han-

aoka, and Yamada, 5162 Hanawalt, P. C. SeeBohr, Phillips, and Hanawalt,

Hancock, C. See Fanucchi, Kinahan, Samuels, Hancock, Chou, Niedzwiecki, Farag, Vidal, DeGraw, Sternberg, Sirotnak, and Young, 2334: Tan, Hancock, Steinherz, Bacha, Steinherz, Luks, Winick, Meyers, Mondora, Dantis, Niedzwiecki, and Stevens, 2990

Hancock, S. See Coleman, Halsey, Cox, Hirst, Blaschke, Howes, Wasserman, Urtasun, Pajak, Hancock, Phillips, and Noll, 319

Hande, K. R. See Brenner, Anthony, Halter, Harris, Collins, and Hande, 3259

Handschumacher, R. E. See Darnowski, Hold-ridge, and Handschumacher, 2614

Hangoc, G. See Lu, Hangoc, Oliff, Chen, Shen, and Broxmeyer, 4184

Hankin, J. H. See Kolonel, Hankin, and Yoshizawa, 2982

Hanna, M. G., Jr. See Doyle, Koths, Brindley, Fong, Halenbeck, Ransom, Pomato, Cleveland, McCabe, and Hanna, 914

Hansen, H. H. See Østerlind, Hansen, Dombernowsky, Hansen, and Andersen, 2733

Hansen, H. J. See Haagensen, Metzgar, Sawlivich, Swenson, Davis, Newman, Zamcheck, Wells, and Hansen, 5606

Hansen, K., and Mossman, B. T. Generation of Superoxide (O₂⁻) from Alveolar Macrophages Exposed to Asbestiform and Nonfibrous Parti-

Hansen, M. See Østerlind, Hansen, Dombernowsky, Hansen, and Andersen, 2733 Hansen, M. F., and Cavenee, W. K. Genetics of

Cancer Predisposition, 5518, Perspectives in Cancer Research

Hansson, J., Lewensohn, R., Ringborg, U., and Nilsson, B. Formation and Removal of DNA Cross-Links Induced by Melphalan and Nitrogen Mustard in Relation to Drug-induced Cytotoxicity in Human Melanoma Cells, 2631

Hara, T. See Endo, Kato, Takeda, Saito, Umemoto, Kishida, and Hara, 1076

Harasawa, N. See Ikeda, Nakano, Nagashima, Sakamoto, Harasawa, Kitamura, Nakamura, and Nagamachi, 231

Harigai, H. See Gamou, Hunts, Harigai, Hirohashi, Shimosato, Pastan, and Shimizu, 2668 Harigaya, K. See Ohkawa and Harigaya, 2879

en, S., Stoudemire, J., Mischak, R., Spitler, L. E. Lopez, H., and Scannon, P. Toxicity and Immunogenicity of Monoclonal Antimelanoma Antibody-Ricin A Chain Immunotoxin in Rats,

Harkonen, W. S. See Spitler, del Rio, Khentigan, Wedel, Brophy, Miller, Harkonen, Rosendorf, Lee, Mischak, Kawahata, Stoudemire, Fradkin, Bautista, and Scannon, 1717

Harland, R. N. L. See Howell, Harland, Barnes Baildam, Wilkinson, Hayward, Swindell, and Sellwood, 300; Howell, Harland, Barnes, Hayward, Redford, Swindell, and Sellwood, 296 Harlos, J. P. See Vaage and Harlos, 547

Harlow, S. D. See Linet, Harlow, and McLaughlin,

Harrington, G. W. See Gombar, Pylypiw, and Harrington, 343

Harris, A. L. See Robson, Hoban, Harris, and Hickson, 1560; Robson, Lewis, Wolf, Hayes, Hall, Proctor, Harris, and Hickson, 6022

Harris, C. C. Human Tissues and Cells in Carcinogenesis Research, 1, Perspectives in Cancer Research. See also Baba, Klein-Szanto, Trono, Obara, Yoakum, Masui, and Harris, 573; Gerwin, Lechner, Reddel, Roberts, Robbins, Gabrielson, and Harris, 6180; Willey, Grafstrom, Moser, Ozanne, Sundqvist, and Harris, 2045 Harris, J. R. See Hellman and Harris, 339

Harris, L., Preat, V., and Farbar, E. Patterns of Ligand Binding to Normal, Regenerating, Preneoplastic, and Neoplastic Rat Hepatocytes,

Harris, M. G. See Irving, Brooks, Brereton, Galloway, Field, Bell, Harris, Baddeley, and DodHarris, N. L. See Brenner, Anthony, Halter, Har-

ris, Collins, and Hande, 3259 Harrison, S. D., Jr. See Plowman, Harrison, Trader, Griswold, Chadwick, McComish, Sil-veira, and Zaharko, 685; Trotta and Harrison,

Hartka, L. See Hamilton, Hyland, McAvinchey, Chaudhry, Hartka, Kim, Cichon, Floyd, Turj-man, Kessie, Nair, and Dick, 1551

Haruta, Y. See Matsuzaki, Haruta, Fukukawa,

Barcos, and Seon, 2160

Harvey, R. G. See Amin, Huie, Balanikas, Hecht, Pataki, and Harvey, 3613; Hecht, Amin, Huie, Melikian, and Harvey, 5310

Harwell, J. See Mulshine, Keenan, Carrasquillo, Walsh, Linnoila, Holton, Harwell, Larson, Bunn, and Weinstein, 3572

Harwood, J. R. See Delic, Harwood, and Stanley,

Hasegawa, R. See Birt, Julius, Hasegawa, St. John, and Cohen, 1244 Hasegawa, T. See Song, Lee, Hasegawa, Rhee, and

Hashiba, H., Fukushima, M., Chida, K., and Kuroki, T. Systemic Inhibition of Tumor Promoterinduced Ornithine Decarboxylase in 1α-Hydroxyvitamin D3-treated Animals, 5031

da, M. See Atsumi, Endo, Kakutani, Takakura, Hashida, and Sezaki, 5546 Hashim, G. A. See Kamiyama, Hashim, Abdelaal,

and Araujo, 2433 Hashimoto, T. See Onozaki, Tamatani, Hashi-moto, and Matsushima, 2397

Haskill, J. S. See Nelson, Haskill, Sloan, Siegfried,

Siegal, Walton, and Kaufman, 2814 Hasuda, K. See Kuroiwa, Aoki, Taniguchi, Ha-suda, and Baba, 3618

Hata, J. See Kanda, Tsuchida, Hata, Kohl, Alt, Latt, and Utakoji, 3291

Hatch, G. G. See Arce, Allen, Doerr, Elmore, Hatch, Moore, Sharief, Grunberger, and Nesnow, 3388

Hatta, A. See Itoh, Yokota, Takagishi, Hatta, and Okamoto, 5560

Hattori, H., Uemura, K-i., Ogata, H., Katsuyama, T., Taketomi, T., and Kanfer, J. N. Characterization of Glycolipids from the Gastric Cancer of a Patient of p,O,Le(a-,b+) Blood Type: Pres-ence of Incompatible Blood Group Antigens in **Tumor Tissues, 1968**

Hattori, T. See Ito, Ishikawa, Okano, Hattori, Fujii, Shinozawa, and Shibuya, 4146

Hattori, T. See Noso, Niimi, Nishiyama, Hirabayashi, Toge, Niimoto, and Hattori, 6418 Hattori, T. See Sakai, Hattori, Sagawa, Yokoyama,

and Takatsuki, 5572 Haugen, O. A. See Tvedt, Kopstad, Haugen, and

Halgunset, 323 Hausen, A. See Reibnegger, Hetzel, Fuchs, Fuith,

Hausen, Werner, and Wachter, 4977 Haussler, C. A. See Korc, Haussler, and Trook-

man, 4909 Haussler, M. R. See Berger, Wilson, McClelland,

Colston, Haussler, Pike, and Coombes, 6793 Havemann, K. See Bepler, Jaques, Havemann, Koehler, Johnson, and Gazdar, 1883; Kiefer Bepler, Kubasch, and Havemann, 6236

Haverkort, W. A. See de Korte, Haverkort, de Boer, van Gennip, and Roos, 1841 Hawkins, L. R. Sec Ward, Mather, Hawkins,

Crowther, Shepherd, Granowska, Britton, and Slevin, 4719

Hayakawa, T. See Yamada, Ushio, Hayakawa, Arita, Huang, Nagatani, Yamada, and Mogami, 2123

Hayami, M. See Tsujimoto, Noda, Ishikawa, Nakamura, Fukasawa, Sakakibara, Sasagawa, Honjo, and Hayami, 269

Hayasaki, J-i. See Magae, Hosokawa, Matsuda, Hotta, Hayasaki, Nagai, Ando, Yamasaki, and Tamura, 96

Hayashi, K-i. See Izumi, Hirai, Hayashi, Konishi, Okuhara, Kohsaka, Aoki, and Yamamura, 1785 Hayashi, O., Noguchi, S., and Oyasu, R. Transferrin as a Growth Factor for Rat Bladder Carci-

Hayashi, Y. See Sato, Azuma, Hayashi, Yoshida, Yanagawa, and Yura, 4453

noma Cells in Culture, 4560

Hayashida, M. See Terakawa, Hayashida, Shimizu, Ikegami, Wakimoto, Aono, Tanizawa, Mat-

zunoto, and Nishida, 1918
Hayatsu, H., Kasai, H., Yokoyama, S., Miyazawa, T., Yamaizumi, Z., Sato, S., Nishimura, S., Arimoto, S., Hayatsu, T., and Ohara, Y. Mutagenic Metabolites in Urine and Feces of Rats Fed with 2-Amino-3,8-dimethylimidazo[4,5-f]quinoxaline, a Carcinogenic Mutagen Present in Cooked Meat, 791

Hayatsu, T. See Hayatsu, Kasai, Yokoyama, Mi-yazawa, Yamaizumi, Sato, Nishimura, Arimoto, Hayatsu, and Ohara, 791

Hayes, F. A. See Brodeur, Hayes, Green, Casper,

Wasson, Wallach, and Seeger, 4248 Hayes, H. T. See Luster, Germolec, Burleson

Jameson, Ackermann, Lamm, and Haves, 2259 Hayes, J. D. See Robson, Lewis, Wolf, Hayes, Hall, Proctor, Harris, and Hickson, 6022

Hayes, M. A. See Tatematsu, Lee, Hayes, and Farber, 4699; Wollenberg, Semple, Quinn, and Hayes, 6595

Haynes, B. F. See Haleem, Kurtzberg, Olsen, Rhinehardt-Clark, Leslie, Ray, Smith, Peters, Haynes, and Bast, 4608

Hayward, E. See Howell, Harland, Barnes, Baildam, Wilkinson, Hayward, Swindell, and Sellwood, 300; Howell, Harland, Barnes, Hayward, Redford, Swindell, and Sellwood, 296

Hazelton, B. J., Houghton, J. A., Parham, D. M., Douglass, E. C., Torrance, P. M., Holt, H., and Houghton, P. J. Characterization of Cell Lines Derived from Xenografts of Childhood Rhabdomyosarcoma, 4501

Head, J. F. See Bhargava, Head, Bailey, and Greengard, 6262

Headley, D. L. See Retsky, Wardwell, Swartzendruber, and Headley, 4982

Heaney, M. L. See Taparowsky, Heaney, and Parsons, 4125

Hearing, V. J. See Law, Vieira, Kameyama, and Hearing, 5841

Hecht, F. See Smith, Morgan, Galili, Amylon, Link, Hecht, Sklar, and Glader, 1652 Hecht, S. S. See Amin, Huie, Balanikas, Hecht, Pataki, and Harvey, 3613; Carmella and Hecht, 2626; Foiles, Chung, and Hecht, 360; Melikian,

Bagheri, and Hecht, 5354
Hecht, S. S., Amin, S., Huie, K., Melikian, A. A., and Harvey, R. G. Enhancing Effect of a Bay Region Methyl Group on Tumorigenicity in Newborn Mice and Mouse Skin of Enantiomeric Bay Region Diol Epoxides Formed Stereoselectively from Methylchrysenes in Mouse Epider-

Hecquet, B., Vennin, P., Fournier, C., and Poisse nier, B. Evaluation of the Pharmacological Benefit and Determination of the Influencing Factors of Intraarterial cis-Diamminedichloroplatnum Administration in Patients with Uterine Cervical Cancer, 6134

Hedley, D. W., Rugg, C. A., and Gelber, R. D. Association of DNA Index and S-Phase Fraction with Prognosis of Nodes Positive Early Breast Cancer, 4729

Heesbeen, E. C. See Staal, Kalff, Heesbeen, van

Preciseen, E. C. See Staat, Kalli, Fleesbeen, van Veelen, and Rijksen, 5047 Heggie, G. D., Sommadossi, J-P., Cross, D. S., Huster, W. J., and Diasio, R. B. Clinical Phar-macokinctics of 5-Fluorouracia and Its Metabo-lites in Plasma, Urine, and Bile, 2203

Helcappell, R. See Fidler, Heicappell, Saiki, Grutter, Horisberger, and Nuesch, 2020 Heilman, C. A. See Kessler, Heilman, Cossman,

Maguire, and Thorgeirsson, 527 Heindel, N. D. See Borlinghaus, Fitzpatrick, Heindel, Mattis, Mease, Schray, Shealy, Walton, and

Woo, 4071 Heine, U. I. See Junker and Heine, 3802

Heiner, J. P., Miraldi, F., Kallick, S., Makley, J., Neely, J., Smith-Mensah, W. H., and Cheung, N-K. V. Localization of G_{D2}-specific Monoclo-nal Antibody 3F8 in Human Osteosarcoma, 5377

Heintz, P. A. M. See Rodenburg, Ploem-Zaaijer, Cornelisse, Mesker, Hermans, Heintz, Ploem, and Fleuren, 3938

Heldin, C-H. See Peres, Betsholtz, Westermark,

and Heldin, 3425

Hellerström, C. See Sener, Giroix, Hellerström, and Malaisse, 5905

Hellman, S., and Harris, J. R. The Appropriate Breast Cancer Paradigm, 339, Perspectives in Cancer Research

Helmes, C. T. See Dawson, Chao, and Helmes,

Henderson, B. E. See Yu, Henderson, Austin, Del-zell, Cole, Grufferman, Levine, Morrison, and Stolley, 654

Henderson, B. W., and Fingar, V. H. Relationship of Tumor Hypoxia and Response to Photody-namic Treatment in an Experimental Mouse Tumor, 3110

Henderson, E. E. See Valerie, Green, de Riel, and

Henderson, 2967 Henderson, L. E. See Stromberg, Hudgins, Dor-man, Henderson, Sowder, Sherrell, Mount, and

Henkelman, M. S. See Setyono-Han, Henkelman, Foekens, and Klijn, 1566

Henner, W. D. See Peters, Henner, Grochow, Olsen, Edwards, Stanbuck, Stuart, Gockerman,

Moore, Bast, Seigler, and Colvin, 6402; Teicher, Holden, Kelley, Shea, Cucchi, Rosowsky, Henner, and Frei, 388

Hennings, H. See Wirth, Yuspa, Thorgeirsson, and Hennings, 2831

Henslee, J. G. See Park, Oie, Sugarbaker, Henslee,

Chen, Johnson, and Gazdar, 6710 Heo, D. S., Whiteside, T. L., Johnson, J. T., Chen, K., Barnes, E. L., and Herberman, R. B. Long-Term Interleukin 2-dependent Growth and Cytotoxic Activity of Tumor-infiltrating Lympho-cytes from Human Squamous Cell Carcinomas of the Head and Neck, 6353

Herald, C. L. See Dell'Aquila, Nguyen, Herald, Pettit, and Blumberg, 6006; Sako, Yuspa, Herald, Pettit, and Blumberg, 5445

Herberman, R. B. See Gorelik, Ovejera, Shoemaker, Jarvis, Alley, Duff, Mayo, Herberman, and Boyd, 5739; Heo, Whiteside, Johnson, Chen, Barnes, and Herberman, 6353

Herd, Z. L. Suppression of B16 Meianoma Lung Colonization by Syngeneic Monoclonal Antibodies, 2696

Herlyn, D. See Rodeck, Herlyn, Herlyn, Molthoff, Atkinson, Varello, Steplewski, and Koprowski, 3692; Takahashi, Herlyn, Atkinson, Powe, Rodeck, Alavi, Bruce, and Koprowski, 3847

Herlyn, M. See Basu, Murthy, Rodeck, Herlyn, Mattes, and Das, 2531; Rodeck, Herlyn, Herlyn, Molthoff, Atkinson, Varello, Steplewski, and Koprowski, 3692; Thurin, Thurin, Kimoto, Herlyn, Lubeck, Elder, Smereczynska, Karlsson,

Clark, Steplewski, and Koprowski, 1229 Herlyn, M., Rodeck, U., Mancianti, M., Cardillo, F. M., Lang, A., Ross, A. H., Jambrosic, J., and Koprowski, H. Expression of Melanoma-associated Antigens in Rapidly Dividing Human Melanocytes in Culture, 3057

Hermans, J. See Rodenburg, Ploem-Zaaijer, Cornelisse, Mesker, Hermans, Heintz, Ploem, and

Fleuren, 3938 Herr, H. W. See Russo, Liguori, Heston, Huryk, Yang, Fair, Whitmore, and Herr, 5967 Herrera, L. See Manly, Petrelli, Anderson, Em-

rich, Herrera, and Mittelman, 6156 Herz, F. See Czerniak, Herz, Wersto, and Koss,

2826
Heston, W. D. W. See Russo, Liguori, Heston, Huryk, Yang, Fair, Whitmore, and Herr, 5967
Heston, W. D. W., Yang, C-R., Pliner, L., Russo, P., and Covey, D. F. Cytotoxic Activity of a Polyamine Analogue, Monoaziridin noma Cell Line, 3627

Hetzel, H. See Reibnegger, Hetzel, Fuchs, Fuith, Hausen, Werner, and Wachter, 4977

Hibi, N. See Tsukada, Ohkawa, and Hibi, 4293 Hickman, J. A. See Langdon and Hickman, 140; Stevens, Hickman, Langdon, Chubb, Vickers, Stone, Baig, Goddard, Gibson, Slack, Newton, Lunt, Fizames, and Lavelle, 5846; Thompson, Chahwala, and Hickman, 2799

Hickson, I. D. See Robson, Hoban, Harris, and Hickson, 1560; Robson, Lewis, Wolf, Hayes,

Hall, Proctor, Harris, and Hickson, 6022 Hida, K. See Suda, Sakamoto, Hida, Kano, Takaku, and Miura, 2782

Hidaka, H. See Ido, Sato, Sakurai, Inagaki, Saitoh, Watanabe, and Hidaka, 3460

Higashino, K. See Tamura, Fujioka, Nakano, Hada, and Higashino, 6138

Higuchi, H. See Matsunaga, Kuroki, Higuchi, Arakawa, Takakura, Okamoto, and Matsuoka, 56 Hilf, R. See Klinge, Bambara, Zain, and Hilf, 2852; Murant, Gibson, and Hilf, 4323; Rogh-

mann, Skinner, and Hilf, 1348 Hill, D. L. See McCarthy, Lindamood, and Hill, 5014

Hill, L. R. See Hammond, Gabriel, Paladugu, Azumi, Hill, and Benfield, 5202

Hill, R. P. See Cillo, Dick, Ling, and Hill, 2604 Hillebrand, M. J. X. See Beem, Hillebrand, Benckhuijsen, and Overdijk, 3980; Benckhuijsen, Osman, Hillebrand, and Smets, 4814

Hilz, H. See Bürkle, Meyer, Hilz, and zur Hausen,

Hindenburg, A. A. See Baker, Kanani, Brockhau-sen, Schachter, Hindenburg, and Taub, 2763 Hindenburg, A. A., Baker, M. A., Gleyzer, E., Stewart, V. J., Case, N., and Taub, R. N. Effect of Verapamil and Other Agents on the Distribution of Anthracyclines and on Reversal of Drug Resistance, 1421

Hines, D. L. See Fahey and Hines, 4759 Hines, L. H. See White and Hines, 1820

Hink, L. A. See Maybaum, Morgans, and Hink, 3083

Hino, T. See Sugimoto, Sawada, Matsumura, Horii, Kemshead, Suzuki, Okada, Tagaya, and Hino, 5433

Hirabayashi, N. See Noso, Niimi, Nishiyama, Hir-

abayashi, Toge, Niimoto, and Hattori, 6418 Hiraga, S., Klubes, P., Owens, E. S., Cysyk, R. L., and Blasberg, R. G. Increases in Brain Tumor and Cerebral Blood Flow by Blood-Perfluorochemical Emulsion (Fluosol-DA) Exchange.

Hirai, O. See Izumi, Hirai, Hayashi, Konishi, Okuhara, Kohsaka, Aoki, and Yamamura, 1785; Manda, Shimomura, Mukumoto, Kobayashi, Mizota, Hirai, Matsumoto, Oku, Nishigaki, Mori, and Kikuchi, 3707

Hirano, K., Domar, U. M., Yamamoto, H., Brehmer-Andersson, E. E., Wahren, B. E., and Stig-brand, T. I. Levels of Alkaline Phosphatase Isozymes in Human Seminoma Tissue, 2543

Hiraoka, A., Ohkubo, T. and Fukuda, M. Production of Human Hematopoietic Survival and Growth Factor by a Myeloid Leukemia Cell Line (KPB-M15) and Placenta as Detected by a Monoclonal Antibody, 5025

Hiraoka, D. See Omukai, Nakamura, Hiraoka, Nishizawa, Uchida, Noguchi, Sato, and Matsu-

moto, 4329

3742

Hiraoka, D., Nakamura, N., Nishizawa, Y., Uchida, N., Noguchi, S., Matsumoto, K., and Sato, B. Inhibitory and Stimulatory Effects of Glucocorticoid on Androgen-induced Growth of Murine Shionogi Carcinoma 115 in Vivo and in Cell Culture, 6560

Hirata, J. See Kikuchi, Oomori, Kizawa, Hirata, Kita, Miyauchi, and Kato, 6459 Hirayama, Y. See Kawaguchi, Nomura, Hirayama,

and Kitagawa, 4460
Hirohashi, S. See Gamou, Hunts, Harigai, Hirohashi, Shimosato, Pastan, and Shimizu, 2668; Watanabe, Okabe, Fujisawa, Takaku, Hiro-hashi, and Shimosato, 826

Hirose, M. See Fukushima, Sakata, Tagawa, Shibata, Hirose, and Ito, 2113; Masui, Asamoto,

Hirose, Fukushima, and Ito, 5171 Hirota, K., Hirota, T., Sanno, Y., and Tanaka, T. A New Glucocorticoid Receptor Detected in Host Rat Liver but not in Various Hepatomas, 3742 Hirota, T. See Hirota, Hirota, Sanno, and Tanaka,

Hirst, V. K. See Coleman, Halsey, Cox. Hirst, Blaschke, Howes, Wasserman, Urtasun, Pajak, Hancock, Phillips, and Noll, 319

Hitselberger, M. H. See Schleicher, Hitselberger, and Beattie, 453 Hittelman, W. See Zwelling, Estey, Silberman, Doyle, and Hittelman, 251

Hiwasa, T., Tanigawara, C., and Sakiyama, S. Defects of Cyclic Adenosine 3':5'-Monophosphate-dependent Protein Kinases in Initiated Clones Derived from BALB/c 3T3 Mouse Fibroblasts, 953

Hnatowich, D. J., Gionet, M., Rusckowski, M., natiowich, D. J., Glonet, M., Rusckowski, M., Siebecker, D. A., Roche, J., Shealy, D., Mattis, J. A., Wilson, J., Hunter, R. E., Griffin, T., and Doherty, P. W. Pharmacokinetics of "In-la-beled OC-125 Antibody in Cancer Patients Compared with the 19-9 Antibody, 6111

Hnilica, L. S. See Olinski, Wedrychowski, Schmidt, Briggs, and Hnilica, 201 Ho, C-K., Chiang, H., Li, S-Y., Yuan, C-C., and Ng, H-T. Establishment and Characterization of a Tumorigenic Trophoblast-like Cell Line from a Human Placenta, 3220

Ho, M-K. See Brown, Davis, Saltzgaber-Muller, Simon, Ho, Shaw, Stone, Sands, and Moore,

Ho, M-K., Kato, K. P., Durda, P. J., Murray, J. H., Wolfe, H., Rabin, H., and Carney, W. P. Tissue Distribution, Immunochemical Characterization, and Biosynthesis of 47D10, a Tumorassociated Surface Glycoprotein, 241

Hoban, P. R. See Robson, Hoban, Harris, and Hickson, 1560 Hochalter, J. B. See Wattenberg, Hochalter, and

Galbraith, 4351 Hodnett, E. M. See Powis, Hodnett, Santone, See,

and Melder, 2363 Hoeltge, G. A. See Slovak, Hoeltge, and Trent,

Hoffman, R. See Tricot, Jayaram, Nichols, Pennington, Lapis, Weber, and Hoffman, 4988

Hoffmann, D. See Prokopczyk, Rivenson, Bertinato, Brunnemann, and Hoffmann, 467; Schiffman, Haley, Felton, Andrews, Kaslow, Lancaster, Kurman, Brinton, Lannom, and Hoffmann,

Hoffmann, M. K. See Chun and Hoffmann, 115 Hogenkamp, H. P. See Mirkin, O'Dea, and Hogenkamp, 3650; O'Dea, Mirkin, Hogenkamp, and Barten, 3656

Hogg, N. See Allen, and Hogg, 2919

Hoidal, J. R. See Skubitz, Northfelt, McGowan, and Hoidal, 3072

Holcenberg, J. S. See Antonsson, Avramis, Nyce, and Holcenberg, 3672; Avramis, Biener, Krailo, Finklestein, Ettinger, Willoughby, Siegel, and Holcenberg, 6786; Balis, Patel, Luks, Doherty, Holcenberg, Tan, Reaman, Belasco, Ettinger, Zimm, and Poplack, 4973

Holdaway, I. M. See Mountjoy, Finlay, and Holdaway, 6500

Holden, S. A. See Teicher, Crawford, Holden, and Cathcart, 5036; Teicher, Holden, and Jacobs, 513; Teicher, Holden, Kelley, Shea, Cucchi, Rosowsky, Henner, and Frei, 388 Holdridge, C. See Darnowski, Holdridge, and

Handschumacher, 2614 Holland, J. F. See Paciucci, Keaveney, Cuttner, and Holland, 5234

d, J. G. See Friend, Zajac-Kaye, Holland,

and Pogo, 378 Hollenberg, P. F. See Mangino, Hollenberg, and

Scarnelli, 4776 Hollstein, M. See Yamasaki, Hollstein, Mesnil, Martel, and Aguelon, 5658

Holman, B. See Johnson, Barth, Adams, Hollman, Price, and Sautins, 1111

Holstein, H. See Gabel, Holstein, Larsson, Gille, Ericson, Sacker, Som, and Fairchild, 5451 Holt, H. See Hazelton, Houghton, Parham, Doug-

lass, Torrance, Holt, and Houghton, 4501 Holtermann, G. See Acker, Carlsson, Holtermann, Nederman, and Nylén, 3504

Holton, O. D. See Mulshine, Keenan, Carrasquillo, Walsh, Linnoila, Holton, Harwell, Larson, Bunn, and Weinstein, 3572; Parker, Keenan, Dower, Steller, Holton, Sieber, and Weinstein,

Holzmann, B. See Lehmann, Holzmann, Breitbart, Schmiegelow, Riethmüller, and Johnson, 841

Homma, Y., Kakizoe, T., Samma, S., and Oyasu, R. Inhibition of N-Butyl-N-(4-hydroxybutyl)nitrosamine-induced Rat Urinary Bladder Carcinogenesis by a-Difluoromethylornithine,

Honeysett, J. M. See Taetle and Honeysett, 2040 Hong, J-y., Pan, J., Dong, Z., Ning, S. M., and Yang, C. S. Regulation of N-Nitrosodimethylamine Demethylase in Rat Liver and Kidney,

Honjo, S. See Tsujimoto, Noda, Ishikawa, Nakamura, Fukasawa, Sakakibara, Sasagawa, Honjo, and Hayami, 269

Honma, C. See Ishikura, Honma, Honma, Hozumi, Black, Kieber-Emmons, and Bloch, 1052

Honma, Y. See Ishikura, Honma, Honma, Hozumi, Black, Kieber-Emmons, and Bloch, 1052: Kasukabe, Honma, Hozumi, Suda, and Nishii.

Honn, K. V. See Menter, Steinert, Sloane, Gundlach, O'Gara, Marnett, Diglio, Walz, Taylor, and Honn, 6751; Menter, Steinert, Sloane, Taylor, and Honn, 2425; Rozhin, Robinson, Ste-

vens, Lah, Honn, Ryan, and Sloane, 6620 Hood, L. E. See Goldstein, Gockerman, Krishnan, Ritchie, Tso, Hood, Ellinwood, and Laszlo,

Hoon, D. S. B., Bowker, R. J., and Cochran, A. J. Suppressor Cell Activity in Melanoma-draining

Lymph Nodes, 1529
Hoon, D. S. B., Korn, E. L., and Cochran, A. J. Variations in Functional Immunocompetence of Individual Tumor-draining Lymph Nodes in Humans, 1740

Hoosein, N. M., Brattain, D. E., McKnight, M. K., Levine, A. E., and Brattain, M. G. Characterization of the Inhibitory Effects of Transforming Growth Factor-β on a Human Colon Carcinoma Cell Line, 2950

Hopman, A. H. M. See Collard, van de Poll, Scheffer, Roos, Hopman, Geurts van Kessel, and van Dongen, 6666

Hopwood, V. See Lee, Pathak, Hopwood, Toma sovic, Mullins, Baker, Spitzer, and Neidhart, 6349

Horan Hand, P. See Ohuchi, Horan Hand, Merlo, Fujita, Mariani-Costantini, Thor, Nose, Callahan, and Schlom, 1413

Hori, K., Ehrke, M. J., Mace, K., Maccubbin, E., Doyle, M. J., Otsuka, Y., and Mihich, E. Effect of Recombinant Human Tumor Necrosis Factor on the Induction of Murine Macrophage Tumoricidal Activity, 2793 Hori, K., Ehrke, M. J., Mace, K., and Mihich, E.

Effect of Recombinant Tumor Necrosis Factor on Tumoricidal Activation of Murine Macrophages: Synergism between Tumor Necrosis Factor and γ -Interferon, 5868

Horii, Y. See Sugimoto, Sawada, Matsumura, Horii, Kemshead, Suzuki, Okada, Tagaya, and Hino, 5433

Horisberger, M. A. See Fidler, Heicappell, Saiki, Grutter, Horisberger, and Nuesch, 2020 Horne, K. See Struck, Alberts, Horne, Phillips,

Peng, and Roe, 2723

Horowitz, M. E. See Goren, Wright, Pratt, Horowitz, Dodge, Viar, and Kovnar, 1457 Horowitz, M. E., Parham, D. M., Douglass, E. C., Kun, L. E., Houghton, J. A., and Houghton, P. J. Development and Characterization of Human Ependymoma Xenograft HxBr5, page 499

Horstman, M. G., Meadows, G. G., and Yost, G. S. Separate Mechanisms for Procarbazine Spermatotoxicity and Anticancer Activity, 1547

Horton, C. See Zimm, Cleary, Lucas, Weiss, Mark-man, Andrews, Schiefer, Kim, Horton, and Howell, 1712

Horton, J. K., Houghton, P. J., and Houghton, J. A. Reciprocal Cross-Resistance in Human Rhabdomyosarcomas Selected in Vivo for Primary Resistance to Vincristine and L-Phenylalanine Mustard, 6288

Horvath, J. See Sircar, Palkonyay, Rodrigues, Allaire, Horvath, Thirion, and Weber, 1339 Horwitz, J. P. See Brooks, Horwitz, Odden, and

Corbett, 4623 Hosoda, S. See Kato, Asano, Kamiya, Haimoto,

Hosoda, Nagasaka, Ariyoshi, and Ishiguro, 5800

Hosokawa, M. See Itaya, Yamagiwa, Okada, Oikawa, Kuzumaki, Takeichi, Hosokawa, and Kobayashi, 3136; Morikawa, Okada, Hosokawa, and Kobayashi, 37

Hosokawa, S. See Konno, Suzuki, Tadakuma, Kumai, Yasuda, Kubota, Ohta, Nagaike, Hoso-kawa, Ishibiki, Abe, and Saito, 4471

osokawa, T. See Magae, Hosokawa, Matsuda, Hotta, Hayasaki, Nagai, Ando, Yamasaki, and Tamura, 96

Hoth. D. F. See O'Dwyer, King, Hoth, and Leyland-Jones, 3911

Hotta, M. See Magae, Hosokawa, Matsuda, Hotta, Hayasaki, Nagai, Ando, Yamasaki, and Tamura,

Houghton, A. N. See Dracopoli, Alhadeff, Houghton, and Old, 3995

Houghton, J. A. See Hazelton, Houghton, Parham, Douglass, Torrance, Holt, and Houghton, 4501; Horowitz, Parham, Douglass, Kun, Houghton, and Houghton, 499; Horton, Houghton, and Houghton, 6288; Houghton, Houghton, Germain, and Torrance, 2117

Houghton, P. J. See Hazelton, Houghton, Parham, Douglass, Torrance, Holt, and Houghton, 4501; Horowitz, Parham, Douglass, Kun, Houghton, and Houghton, 499; Horton, Houghton, and

Houghton, 6288

Houghton, P. J., Houghton, J. A., Germain, G., and Torrance, P. M. Development and Characterization of a Human Colon Adenocarcinoma Xenograft Deficient in Thymidine Salvage, 2117 Housman, D. E. See Croop, Guild, Gros, and

Housman, 5982

Houston, L. L. See Griffin, Richardson, Houston, LePage, Bogden, and Raso, 4266

Howard, G. A. See Lee, Liu, Lottsfeldt, Judkins, and Howard, 4059

Howard, P. C. See Eddy, Howard, McCoy, and Rosenkranz, 3163

Howell, A., Harland, R. N. L., Barnes, D. M., Baildam, A. D., Wilkinson, M. J. S., Hayward, E., Swindell, R., and Sellwood, R. A. Endocrine Therapy for Advanced Carcinoma of the Breast: Relationship between the Effect of Tamoxifen upon Concentrations of Progesterone Receptor and Subsequent Response to Treatment, 300

Howell, A., Harland, R. N. L., Barnes, D. M., Hayward, E., Redford, J., Swindell, R., and Sellwood, R. A. Endocrine Therapy for Advanced Carcinoma of the Breast: Effect of Tumor Heterogeneity and Site of Biopsy on the Predictive Value of Progesterone Receptor Estimations,

Howell, S. B. See Kim, Kim, Geyer, and Howell, 3935; Zimm, Cleary, Lucas, Weiss, Markman, Andrews, Schiefer, Kim, Horton, and Howell,

Howes, A. E. See Coleman, Halsey, Cox, Hirst, Blaschke, Howes, Wasserman, Urtasun, Pajak, Hancock, Phillips, and Noll, 319 Høyer, P. E. See Petersen, Høyer, and van Deurs,

Hozumi, M. See Ishikura, Honma, Honma, Hozumi, Black, Kieber-Emmons, and Bloch, 1052; Kasukabe, Honma, Hozumi, Suda, and Nishii,

Hrabie, J. A. See Wade, Yang, Metral, Roman, Hrabie, Riggs, Anjo, Keefer, and Mico, 3373 Hsiang, Y-H. See Nelson, Cho, Hsiang, Liu, and

Coffey, 3246 Hsiao, W-L. See Hsieh, Hsiao, Peraino, Maron-

pot, and Weinstein, 3421 Hsieh, D. P. See Cullen, Ruebner, Hsieh, Hyde,

and Hsieh, 1913

Hsieh, L. L., Hsiao, W-L., Peraino, C., Maronpot, R. R., and Weinstein, I. B. Expression of Retro-viral Sequences and Oncogenes in Rat Liver Tumors Induced by Diethylnitrosamine, 3421

Hsieh, L. S. See Cullen, Ruebner, Hsieh, Hyde, and Hsieh, 1913 Hsu, T. C. See Kendal, Wang, Hsu, and Frost,

3835 Hu, X. See Zhu, Zhang, Hu, Xiao, Chen, Xu,

Fremy, and Chu, 1848

Huang, L. See Collins and Huang, 735 Huang, M-T. See Smart, Huang, Han, Kaplan,

Focella, and Conney, 6633 Huang, T-Y. See Yamada, Ushio, Hayakawa, Ar-ita, Huang, Nagatani, Yamada, and Mogami,

2123

Hubbard, A. L. See Paietta, Hubbard, Wiernik, Diehl, and Stockert, 2461

Hubbard, N. E., and Erickson, K. L. Enhancement of Metastasis from a Transplantable Mouse Mammary Tumor by Dietary Linoleic Acid.

Hubbard, S. M. See DeVita, Hubbard, and Longo, 5810

Hubbard, W. C. See McLemore, Liu, Blacker, Gregg, Alley, Abbott, Shoemaker, Bohlman, Litterst, Hubbard, Brennan, McMahon, Fine, Eggleston, Mayo, and Boyd, 5132

Hubbell, C. See Graziano, Lehr, Merl, Ehrlich, Moore, Hallinan, Hubbell, Davey, Vournakis,

and Poiesz, 2468

Huber, B. E., and Thorgeirsson, S. S. Analysis of c-myc Expression in a Human Hepatoma Cell

Hudgins, W. R. See Stromberg, Hudgins, Dorman, Henderson, Sowder, Sherrell, Mount, and Orth, 1190

Hughes, A. See Mobbs, Johnson, DeSombre, Toth, and Hughes, 2645 Hughes, D. See Franko, Kock, Garrecht, Sharplin,

and Hughes, 5367

Hui, S. W. See Cheng, Hui, and Lepock, 1255 Huie, K. See Amin, Huie, Balanikas, Hecht, Pa taki, and Harvey, 3613; Hecht, Amin, Huie,

Melikian, and Harvey, 5310

Huitfeldt, H. S., Spangler, E. F., Baron, J., and
Poirier, M. C. Microfluorometric Determination of DNA Adducts in Immunofluorescent-stained Liver Tissue from Rats Fed 2-Acetylaminofluorene, 2098

Hujanen, E. S. See Bresalier, Hujanen, Raper, Roll, Itzkowitz, Martin, and Kim, 1398

Hultborn, R. See Tveit, Weiss, Lundstam, and Hultborn, 4709

Hultin, T. A. See McCormick, Bagg, and Hultin,

Hunt, B. See Frost, Kerbel, Hunt, Man, and Pathak, 2690

Hunter, K. J., Deen, D. F., and Marton, L. J. Changes in the Glutathione Content of Rat 9L Cells Induced by Treatment with the Ornithine Decarboxylase Inhibitor α-Difluoromethylornithine, 5270

Hunter, N. See Milas, Wike, Hunter, Volpe, and

Hunter, R. E. See Hnatowich, Gionet, Rusckowski, Siebecker, Roche, Shealy, Mattis, Wilson, Hunter, Griffin, and Doherty, 6111

Hunter, R. F., Broadway, P., Sun, S., Niell, H. B., and Mauer, A. M. Detection of Small Cell Lung Cancer Bone Marrow Involvement by Discontinuous Gradient Sedimentation, 2737
Hunts, J. See Gamou, Hunts, Harigai, Hirohashi,

Shimosato, Pastan, and Shimizu, 2668

Huot, R. I., Nardone, R. M., and Stromberg, K. Differential Modulation of Human Chorionic Gonadotropin Production by Methotrexate in Normal and Malignant Placental Cultures and Its Increase by Dibutyryl Cyclic Adenosine Monophosphate and/or Actinomycin D in Normal Cultures, 383

Hurley, D. J., and Mastro, A. M. Differentiation of Peanut Lectin Positive Suppressor T-Cells from Peanut Lectin Negative Precursors in Bovine Cells by 12-O-Tetradecanoylphorbol-13-

acetate, 3729

Hurlin, P. J., Fry, D. G., Maher, V. M., and McCormick, J. J. Morphological Transformation, Focus Formation, and Anchorage Inde-pendence Induced in Diploid Human Fibro-blasts by Expression of a Transfected *H-ras* Oncogene, 5752

Hurst-Calderone, S. See Wu, Hurst-Calderone, and Kohn, 6229

Huryk, R. See Russo, Liguori, Heston, Huryk, Yang, Fair, Whitmore, and Herr, 5967 Huster, W. J. See Heggie, Sommadossi, Cross,

Huster, and Diasio, 2203 Hutchinson, G. See Dowsett, Goss, Powles, Hutchinson, Brodie, Jeffcoate, and Coombes, 1957

Hutner, S. H. See Marcus, Dutcher, Paietta, Ciob anu, Strauman, Wiernik, Hutner, Frank, and Baker, 4208

Huysmans, A. See Broers, Rot, Oostendorp, Huysmans, Wagenaar, Wiersma-van Tilburg, Vooijs, and Ramaekers, 3225

Hwang, J. See Lyall, Hwang, Cardarelli, Fitz-Gerald, Akiyama, Gottesman, and Pastan, 2961 Hyde, D. M. See Cullen, Ruebner, Hsieh, Hyde, and Hsieh, 1913

Hyland, J. See Hamilton, Hyland, McAvinchey, Chaudhry, Hartka, Kim, Cichon, Floyd, Turjman, Kessie, Nair, and Dick, 1551

Hynes, J. B. See McGuire, Sobrero, Hynes, and Bertino, 5975

Ichinose, H. See Terasaki, Shimosato, Nakajima Tsumuraya, Ichinose, Nagatsu, and Kato, 3533 Ide, T. See Ninomiya-Tsuji, Ishibashi, and Ide,

Ido, M., Sato, K., Sakurai, M., Inagaki, M., Saitoh M., Watanabe, M., and Hidaka, H. Decreased Phorbol Ester Receptor and Protein Kinase C in P388 Murine Leukemic Cells Resistant to Etoposide, 3460

Iishi, H. See Tatsuta, Iishi, Yamamura, and Tani-

nism, H. See Fassuta, Itsii, Tamanura, and Tani-guchi, III lishi, H., Tatsuta, M., Baba, M., Okuda, S., and Taniguchi, H. Enhancement by Vasoactive In-testinal Peptide of Experimental Carcinogenesis Induced by Azoxymethane in Rat Colon, 4890

Ikawa, Y. See Kurata, Kurata, and Ikawa, 5908
Ikeda, H., Nakano, G-i., Nagashima, K., Sakamoto, K., Harasawa, N., Kitamura, T., Nakamura, T., and Nagamachi, Y. Verapamil Enhancement of Antitumor Effect of cis-Diamminedichloroplatinum(II) in Nude Mouse-grown Human Neuroblastoma, 231

Ikegami, H. See Terakawa, Hayashida, Shimizu,

Ikegami, Wakimoto, Aono, Tanizawa, Matsu-moto, and Nishida, 1918 llett, K. F., David, B. M., Detchon, P., Castleden, W. M., and Kwa, R. Acetylation Phenotype in Colorectal Carcinoma, 1466

Iliadis, A. See Rahmani, Bruno, Iliadis, Favre, Just, Barbet, and Cano, 5796 Iliakis, G., and Lazar, W. Effect of Sodium Chloride Concentration on Adriamycin and N-Trifluoroacetyladriamycin-14-valerate (AD32)-induced Cell Killing and DNA Damage in Chinese Hamster V79 Cells, 1853; Reduction by Caffeine of Adriamycin-induced Cell Killing and DNA Damage in Chinese Hamster Cells: Correlation with Modulation in Intracellular Adriamycin Content, 2224

Imagawa, W. See Guzman, Osborn, Bartley, Ima-gawa, Asch, and Nandi, 275

Imai, Y. See Nara, Yamashita, Murohashi, Tani-kawa, Imai, and Aoki, 2376

Imai, Y. See Rodan, Imai, Thiede, Wesolowski, Thompson, Bar-Shavit, Shull, Mann, and Ro-dan, 4961

Imaida, K. See Fukushima, Shibata, Shirai, Kurata, Tamano, and Imaida, 4821; Shirai, Tagawa, Fukushima, Imaida, and Ito, 6726; Wang, Zu-

kowski, Lee, and Imaida, 3406
Imaizumi, M., Uozumi, J., and Breitman, T. R.
Retinoic Acid-induced Monocytic Differentiation of HL60/MRI, a Cell Line Derived from a Transplantable HL60 Tumor, 1434 Imashuku, S. See Esumi, Todo, and Imashuku,

Imberti, L. See Ziai, Imberti, Nicotra, Badaracco,

Segatto, Natali, and Ferrone, 2474 Imura, N. See Naganuma, Satoh, and Imura, 983 Inagaki, M. See Ido, Sato, Sakurai, Inagaki, Sai-

toh, Watanabe, and Hidaka, 3460 Inculet, R. I., Stein, T. P., Peacock, J. L., Leskiw,

M., Maher, M., Gorschboth, C. M., and Norton, J. A. Altered Leucine Metabolism in Noncachectic Sarcoma Patients, 4746

Ingeno, M. J. See Bergeron and Ingeno, 6010
Inoue, S., and Kawanishi, S. Hydroxyl Radical
Production and Human DNA Damage Induced
by Ferric Nitrilotriacetate and Hydrogen Per-

T. See Fukase, Inoue, Arai, and Sendo, 4842; Kimura, Inoue, Yamashita, Midorikawa, Arai, and Sendo, 6204

Inskip, H. M. See Hall, Inskip, Loik, Tomatis, Day, O'Conor, Bosch, Muir, Parkin, Muñoz, Greenwood, Whittle, Ryder, Oldfield, N'jie, Smith and Coursaget, 5782

Investigators of the Collaborative Breast Cancer Project See Coombes, Powles, Easton, Chilvers, Ford, Smith, McKinna, White, Bradbeer, Yar-nold, Nash, Bettelheim, Dowsett, Gazet, and Investigators of the Collaborative Breast Cancer Project 2494

Ip, M. M. See Scala and Ip, 4287

Irie, R. F. See Tsuchida, Ravindranath, Saxton, and Irie, 1278

Irimura, T. See Yamori, Kimura, Stewart, Ota, Cleary, and Irimura, 2741; Yoshida, Gallick, Irimura, and Nicolson, 2558

Irimura, T., Ota, D. M., and Cleary, K. R. *Ulex* europeus Agglutinin I-reactive High Molecular Weight Glycoproteins of Adenocarcinoma of Distal Colon and Rectum and Their Possible Relationship with Metastatic Potential, 881

Irving, M. G., Brooks, W. M., Brereton, I. M., Galloway, G. J., Field, J., Bell, J. R., Harris, M. G., Baddeley, H., and Doddrell, D. M. Use of High Resolution in Vivo Volume Selected 'H-Magnetic Resonance Spectroscopy to Investigate Leukemia in Humans, 3901

Isaacs, J. T. See Matuo, Nishi, Matsui, Sandberg, Isaacs, and Wada, 188

Ishibashi, S. See Ninomiya-Tsuji, Ishibashi, and Ide, 6028 Ishibiki, K. See Konno, Suzuki, Tadakuma, Ku-

mai, Yasuda, Kubota, Ohta, Nagaike, Hoso-kawa, Ishibiki, Abe, and Saito, 4471 Ishida, T. See Yasumoto, Miyazaki, Nagashima,

Ishida, Kuda, Yano, Sugimachi, and Nomoto, 2194 Ishiguro, Y. See Kato, Asano, Kamiya, Haimoto, Hosoda, Nagasaka, Ariyoshi, and Ishiguro,

Ishikawa, K-i. See Tsujimoto, Noda, Ishikawa,

Nakamura, Fukasawa, Sakakibara, Sasagawa, Honio, and Hayami, 269 Ishikawa, S. See Manabe, Yanagisawa, Ishikawa,

Kitagawa, Kanai, and Wada, 6150 Ishikawa, Y. See Ito, Ishikawa, Okano, Hattori,

Fujii, Shinozawa, and Shibuya, 4146 Ishikura, H., Honma, Y., Honma, C., Hozumi, M., Black, J. D., Kieber-Emmons, T., and Bloch, A. Inhibition of Messenger RNA Transcriptional Activity in ML-1 Human Myeloblastic Leukemia Cell Nuclei by Antiserum to a c-myb-specific Pentide, 1052

Isobe, K-I. See Nagase, Rahman, Yokochi, Kawashima, Isobe, Yoshida, Nagura, and Nakashima, 6494; Yokochi, Kawashima, Nakashima, Nagase, Isobe, Nagura, Yamada, Miyadai, and Kimura, 1006

Isojima, S. See Tsuji, Yoshioka, Ogasawara, Tak-

emura, and Isojima, 3543 Israel, M. A. See Fairchild, Ivy, Kao-Shan, Whang-Peng, Rosen, Israel, Melera, Cowan, and Goldsmith, 5141

Israels, L. G. See Begleiter, Glazer, Israels, Pugh, and Johnston, 2498

Issaq, H. J. See Waalkes, Rehm, Kasprzak, and Issaq, 2445

Issels, R. D., Bourier, S., Böning, B., Li, G. C., Mak, J. J., and Wilmanns, W. Influence of Oxidative Stress Induced by Cysteamine upon the Induction and Development of Thermotoler-ance in Chinese Hamster Ovary Cells, 2268

Itaya, T., Yamagiwa, S., Okada, F., Oikawa, T., Kuzumaki, N., Takeichi, N., Hosokawa, M., and Kobayashi, H. Xenogenization of a Mouse Lung Carcinoma (3LL) by Transfection with an Allogeneic Class I Major Histocompatibility Complex Gene (H-2L4), 3136

Ito, N. See Fukushima, Sakata, Tagawa, Shibata, Hirose, and Ito, 2113; Masui, Asamoto, Hirose, Fukushima, and Ito, 5171; Shirai, Tagawa, Fukushima, Imaida, and Ito, 6726

Ito, T., Ishikawa, Y., Okano, S., Hattori, T., Fujii, R., Shinozawa, T., and Shibuya, A. Cloning of Human Neuroblastoma Cells in Methylcellulose Culture, 4146

Ito, Y., and Jimbow, K. Selective Cytotoxicity of

4-S-Cysteaminylphenol on Follicular Melanocytes of the Black Mouse: Rational Basis for Its Application to Melanoma Chemotherapy, 3278

Itoh, N., Yokota, S., Takagishi, U., Hatta, A., and Okamoto, H. Thiol Proteinase Inhibitor in the Ascitic Fluid of Sarcoma 180 Tumor-bearing Mice, 5560

Itzkowitz, S. H. See Bresalier, Hujanen, Raper, Roll, Itzkowitz, Martin, and Kim, 1398

Ivimey, L. See Elliott, Carlow, Ivimey, Arnold,

Hampton, and Bosman, 4915

Ivins, J. K., and Penning, T. M. Radiochemical

Detection of Dihydrodiol Dehydrogenase: Distribution of the Enzyme in Male Sprague-Dawley Rat Tissues and Its Sensitivity to Inhibition by Indomethacin and 6-Medroxyprogesterone

Ivy, S. P. See Fairchild, Ivy, Kao-Shan, Whang-Peng, Rosen, Israel, Melera, Cowan, and Gold-

smith. 5141

Iwamoto, Y. See Albini, Iwamoto, Kleinman, Martin, Aaronson, Kozlowski, and McEwan, 3239 Iwasaki, Y. See Koyama, Mukai, Fukao, Arimura,

Iwasaki, and Osuga, 4667 Izumi, S., Hirai, O., Hayashi, K-i., Konishi, Y., Okuhara, M., Kohsaka, M., Aoki, H., and Yamamura, Y. Induction of a Tumor Necrosis Factor like Activity by Nocardia rubra Cell Wall Skeleton, 1785

J

Jackson, G. A. See Jones, Ota, Jackson, Jackson, Kemp, Anderson, McCamant, and Bauman, 5224

Jackson, J. D. See Joshi, Tilden, Jackson, Sharp, and Brunson, 3551

Jackson, P. M. See Jones, Ota, Jackson, Jackson, Kemp, Anderson, McCamant, and Bauman,

Jackson, R. C. See Sebolt, Scavone, Pinter, Hamelehle, Von Hoff, and Jackson, 4299

Jacobs, J. L. See Teicher, Holden, and Jacobs, 513 Jacobsen, D. M. See Barrueco, Jacobsen, Chang, Brockman, and Sirotnak, 700

Jacquillat, C. See Khayat, Lokiec, Bizzari, Weil,

Meeus, Sellami, Rouesse, Banzet, and Jacquillat, 6782

Jaczq, E. See Kaisary, Smith, Jaczq, McAllister, Wilkinson, Ray, and Branch, 5488 Jaffe, D., and Bowden, G. T. Ionizing Radiation as an Initiator: Effects of Proliferation and Pro-

motion Time on Tumor Incidence in Mice, 6692 Jagoda, E. M. See McManaway, Jagoda, Kasid, Eckelman, Francis, Larson, Gibson, Reba, and Lippman, 2945

Jain, R. K. Transport of Molecules in the Tumor Interstitium: A Review, 3039. See also Ward-Hartley and Jain, 371

Jambrosic, J. See Herlyn, Rodeck, Mancianti, Cardillo, Lang, Ross, Jambrosic, and Koprowski, 3057

James, B. C. See Stephenson, James, Gay, Fair, Whitmore, and Melamed, 2504

James, C. See Carter, James, Chan, and Greene,

James, K. See Barna, James, and Deodhar, 3959 Jameson, C. W. See Luster, Germolec, Burleson, Jameson, Ackermann, Lamm, and Haves, 2259 on, G. A. See Bastida, Almirall, Jamieson,

and Ordinas, 1767

Jamieson, G. P., Finch, L. R., Snook, M., and Wiley, J. S. Degradation of 1-β-D-Arabinofuranosylcytosine 5'-Triphosphate in Human Leukemic Myeloblasts and Lymphoblasts, 3130

Jaques, G. See Bepler, Jaques, Havemann, Ko-

ehler, Johnson, and Gazder, 1883
Jaques, S., Jr., Tobes, M. C., and Sisson, J. C.
Sodium Dependency of Uptake of Norepinephrine and m-lodobenzylguanidine into Cultured Human Pheochromocytoma Cells: Evidence for Uptake-One, 3920

Jarolim, L. See Greenberg, Egan, Jarolim, Gingras, and Wright, 4801

Jarrell, J., Lai, E. V. Y., Barr, R., McMahon, A., Belbeck, L., and O'Connell, G. Ovarian Toxicity of Cyclophosphamide Alone and in Combination with Ovarian Irradiation in the Rat, 2340 Jarrell, J., YoungLai, E. V., McMahon, A., Barr, R., O'Connell, G., and Belbeck, L. Effects of Ionizing Radiation and Pretreatment with [D-Leu⁶,des-Gly¹⁰] Luteinizing Hormone-releasing Hormone Ethylamide on Developing Rat Ovar-

ian Follicles, 5005 Jarvis, A. See Gorelik, Ovejera, Shoemaker, Jarvis, Alley, Duff, Mayo, Herberman, and Boyd,

Jaspers, N. G. J. See Lehmann, Jaspers, and Gatti, Jayaram, H. N. See Pillwein, Jayaram, and Weber,

3092

Jayaram, H. N. See Tricot, Jayaram, Nichols, Pennington, Lapis, Weber, and Hoffman, 4988
Jefconte, C. R. See Keith, Olson, Wilson, and Jefcoate, 1878

Jeffcoate, S. L. See Dowsett, Goss, Powles, Hutchinson, Brodie, Jeffcoate, and Coombes, 1957 Jeffrey, A. M. See Matsui and Jeffrey, 2385

Jensen, D. E., and Sando, J. J. Absence of Protein Kinase C in Nuclei of EL4 Mouse Thymoma Cells, 3868

Jensen, D. E., Stelman, G. J., and Spiegel, A.
Species Differences in Blood-mediated Nitrosocimetidine Denitrosation, 353

Jerina, D. M. See Pruess-Schwartz, Baird, Yagi,

Jerina, Pigott, and Dipple, 4032 Jesson, M. I., Johnston, J. B., Anhalt, C. D., and Begleiter, A. Effects of 3'-(3-Cyano-4-morpholinyl)-3'-deaminoadriamycin and Structural Analogues on DNA in HT-29 Human Colon Carcinoma Cells, 5935

Jetten, A. M., Anderson, K., Deas, M. A., Kage-chika, H., Lotan, R., Rearick, J. I., and Shudo, K. New Benzoic Acid Derivatives with Retinoid Activity: Lack of Direct Correlation between Biological Activity and Binding to Cellular Ret-

inoic Acid Binding Protein, 3523 Jimbow, K. See Ito and Jimbow, 3278

Johansson, B-M. See Larsson, and Johansson, 4825

Johansson, S. L., Anderström, C., von Schultz, L., and Larsson, P. Enhancement of N-[4-(5-Nitro-2-furyl)-2-thiazolyl]formamide-induced Carcinogenesis by Urinary Tract Infection in Rats,

Johnson, B. E. See Bepler, Jaques, Havemann, Koehler, Johnson, and Gazdar, 1883; Graziano, Cowan, Carney, Bryke, Mitter, Johnson, Mark, Planas, Catino, Comis, and Poiesz, 2148; Park Oie, Sugarbaker, Henslee, Chen, Johnson, and Gazdar, 6710

Dahnson, C. W., Barth, R. F., Adams, D., Holman, B., Price, J. E., and Sautins, I. Phenotypic Diversity of Murine B16 Melanoma Detected by Anti-B16 Monoclonal Antibodies, 1111

Johnson, D. A., and Laguzza, B. C. Antitumor Xenograft Activity with a Conjugate of a Vinca Derivative and the Squamous Carcinoma-reactive Monoclonal Antibody PF1/D, 3118 Johnson, D. E. See Leonard, Johnson, Felsen, Tanney, Royston, and Dillman, 2899

Johnson, G. See Arndt, Colvin, Balis, Lester, Johnson, and Poplack, 5932

Johnson, I. E. See Mobbs, Johnson, DeSombre, Toth, and Hughes, 2645

Johnson, J. P. See Lehmann, Holzmann, Breitbart, Schmiegelow, Riethmüller, and Johnson,

Johnson, J. T. See Heo, Whiteside, Johnson, Chen, Barnes, and Herberman, 6353

Johnson, M. D. See Ronai, Lambert, Johnson, Okin, and Weinstein, 4565

Johnson, R. K. See Mattern, Mong, Bartus, Mira-belli, Crooke, and Johnson, 1793 Johnson, R. T. See Squires, Elliott, and Johnson,

son, S-A. See Weltman, Pedroso, Johnson,

Davignon, Fast, and Leone, 5552 Johnson, W. J. See Koestler, Johnson, Rieman,

Dalton, Greig, and Poste, 2804 Johnston, J. B. See Begleiter, Glazer, Israels, Pugh, and Johnston, 2498; Jesson, Johnston,

Anhalt, and Begleiter, 5935 Johnston, J. B., Pugh, L., and Begleiter, A. Cellular Pharmacology of 3'-(3-Cyano-4-morpholinyl)- 3'-deaminoadriamycin and Structural Analogues in Human Colon Carcinoma HT-29 Cells in Vitro, 4076

Johnston, K. See Tavares, Roneker, Johnston,

Lehrman, and de Noronha, 3190

Johnston, W. W. See Thor, Muraro, Gorstein,
Ohuchi, Viglione, Szpak, Johnston, and

Schlom, 505 Jolivet, A. See Perrot-Applanat, Groyer-Picard, Lorenzo, Jolivet, Hai, Pallud, Spyratos, and Milgrom, 2652

Jones, A. B. See Anderson, Ward, Park, Jones, Junker, Gelboin, and Rice, 6079

Jones, J. K. See Whitehead, Jones, Gabriel, and
Lukies, 2683

nes, L. A., Ota, D. M., Jackson, G. A., Jackson, P. M., Kemp, K., Anderson, D. E., McCamant, S. K., and Bauman, D. H. Bioavailability of Estradiol as a Marker for Breast Cancer Risk Assessment, 5224

Jones, P. A. See Ahlering, Dubeau, and Jones, 6660; Dubeau and Jones, 2107

Jones, P. L. See Brown, Comeau, Jones, Libera-tore, Neacy, Sands, and Gallagher, 1149 Jones, W. G. See Stoter, Sylvester, Sleijfer, ten

Bokkel Huinink, Kaye, Jones, van Oosterom, Vendrik, Spaander, and de Pauw, 2714

Jongsma, A. P. M., Spengler, B. A., Van der Bliek, A. M., Borst, P., and Biedler, J. L. Chromosomal Localization of Three Genes Coamplified in the Multidrug-resistant CH^RC5 Chinese Hamster Ovary Cell Line, 2875

Jordan, V. C. See Gottardis and Jordan, 4020; Robinson and Jordan, 5386

Jordan, V. C., Fritz, N. F., and Tormey, D. C. Endocrine Effects of Adjuvant Chemotherapy and Long-Term Tamoxifen Administration on Node-positive Patients with Breast Cancer, 624: Long-Term Adjuvant Therapy with Tamoxifen: Effects on Sex Hormone Binding Globulin and Antithrombin III, 4517

Jörtsö, E. See Smeds, Peter, Jörtsö, Gerber, and

Studer, 1646

Joshi, S. S., Tilden, P. A., Jackson, J. D., Sharp, J. G., and Brunson, K. W. Cell Surface Proper-ties Associated with Malignancy of Metastatic Large Cell Lymphoma Cells, 3551 Jourdan, M. See Klein, Jourdan, Vazquez, Dugas,

and Bataille, 4856

Joyce, K. M. See Oldfield, Clark, Dedrick, Egorin, Austin, DeVroom, Joyce, and Doppman, 1962 Jozan, S. See Valette, Gas, Jozan, Roubinet, Dupont, and Bayard, 1615 Ju, S-T. See Oh, Very, Walker, Raam, and Ju,

5120 Judah, D. J. See Mandel, Manson, Judah, Simp-

son, Green, Forrester, Wolf, and Neal, 5218 Judkins, S. A. See Lee, Liu, Lottsfeldt, Judkins, and Howard, 4059

Juhl, H. See Thiesen, Juhl, and Arndt, 419

Jukes, T. H. Searching for Magic Bullets: Early Approaches to Chemotherapy-Antifolates, Methotrexate—The Bruce F. Cain Memorial Award Lecture, 5528

Julius, A. D. See Birt, Julius, Hasegawa, St. John, and Cohen, 1244

Jung, T. See Creasey, Doyle, Reynolds, Jung, Lin, and Vitt. 145

Juni, J. E. See Wollner, Knutsen, Ullrich, Chrisp, Juni, Andrews, Tuscan, Stetson, and Ensminger, 3285

Juni, K. See Fukushima, Kawaguchi, Nishida, Juni, Yamashita, Takahashi, and Nakano, 1930 Junker, J. L. See Anderson, Ward, Park, Jones, Junker, Gelboin, and Rice, 6079

Junker, J. L., and Heine, U. I. Effect of Adhesion Factors Fibronectin, Laminin, and Type IV Collagen on Spreading and Growth of Transformed and Control Rat Liver Epithelial Cells, 3802

Just, S. See Rahmani, Bruno, Iliadis, Favre, Just, Barbet, and Cano, 5796

Kaden, D. A., Call, K. M., Leong, P-M., Komives, E. A., and Thilly, W. G. Killing and Mutation of Human Lymphoblast Cells by Aflatoxin B₁:

Evidence for an Inducible Repair Response,

Kadlubar, F. F. See Delclos, Walker, Dooley, Fu, and Kadlubar, 6272

Kagechika, H. See Jetten, Anderson, Deas, Kage chika, Lotan, Rearick, and Shudo, 3523 Kageshita, T. See Kusama, Kageshita, Tsujisaki,

Perosa, and Ferrone, 4312 Kahan, B. W. Experimental Metastasis of Mouse

Embryonal Carcinoma Cell Lines to Specific Locations, 6315

Kahan, B. W., and Kramp, D. C. Nerve Growth Factor Stimulation of Mouse Embryonal Carcinoma Cell Migration, 6324

Kahn, T. See Klingel, Mincheva, Kahn, Gissmann, Dippold, Meyer zum Büschenfelde, and zur Hausen, 4485

Kaisary, A., Smith, P., Jaczą, E., McAllister, C. B., Wilkinson, G. R., Ray, W. A., and Branch, R. A. Genetic Predispositon to Baldder Cancer: Ability to Hydroxylate Debrisoquine and Mephenytoin as Risk Factors, 5488

Kajiji, S. M., Davčeva, B., and Quaranta, V. Six Monoclonal Antibodies to Human Pancreatic

Cancer Antigens, 1367

Kakizoe, T. See Homma, Kakizoe, Samma, and Oyasu, 6176

Kakutani, T. See Atsumi, Endo, Kakutani, Takakura, Hashida, and Sezaki, 5546

Kaldor, J., Bartsch, H., and Schmähl, D. Interna-tional Symposium on the Carcinogenicity of Alkylating Cytostatic Drugs, 2749, Meeting Re-

Kalff, A. See Staal, Kalff, Heesbeen, van Veelen, and Rijksen, 5047

Kallick, S. See Heiner, Miraldi, Kallick, Makley, Neely, Smith-Mensah, and Cheung, 5377 Kallinowski, F. See Vaupel, Fortmeyer, Runkel, and Kallinowski, 3496

Kameyama, K. See Law, Vieira, Kameyama, and Hearing, 5841

Kamidono, S. See Gohji, Maeda, Sugiyama, and Kamidono, 4941

Kaminska, G. See Auerbach, Lu, Pardon, Gumkowski, Kaminska, and Kaminski, 1492

Kaminskas, E. See Li and Kaminskas, 2755 Kaminski, M. See Auerbach, Lu, Pardon, Gumkowski, Kaminska, and Kaminski, 1492 Kamiya, H. See Kisugi, Kamiya, and Yamazaki,

Kamiya, N. See Kato, Asano, Kamiya, Haimoto, Hosoda, Nagasaka, Ariyoshi, and Ishiguro,

Kamiyama, M., Hashim, G. A., Abdelsal, A., and Araujo, L. Antibodies to a Surface Membrane Marker from Human Mammary Carcinoma Cell Line, 2433

Kamma, H. See Endo, Kamma, and Ogata, 5427 Kanai, Y. See Manabe, Yanagisawa, Ishikawa, Kitagawa, Kanai, and Wada, 6150

Kanamaru, T. See Hamby, Liao, Kanamaru, and Ferrone, 5284

Kanani, A. See Baker, Kanani, Brockhausen, Schachter, Hindenburg, and Taub, 2763 Kanazirska, M. P. See Vassilev, Kanazirska, Char-

amella, Dimitrov, and Tien, 519
Kanda, N. See Kaneko, Kanda, Maseki, Sakurai, Tsuchida, Takeda, Okabe, and Sakurai, 311

Kanda, N., Tsuchida, Y., Hata, J., Kohl, N. E., Alt, F. W., Latt, S. A., and Utakoji, T. Amplification of IMR-32 Clones 8, G21, and N-myc in Human Neuroblastoma Xenografts, 3291 Kane, M. A., Roth, E., Raptis, G., Schreibe

and Waxman, S. Effect of Intracellular Folate Concentration on the Modulation of 5-Fluorouracil Cytotoxicity by the Elevation of Phosphoribosylpyrophosphate in Cultured Human

Kane, S. B. See Ara, Aprille, Malis, Kane, Cincotta, Foley, Bonventre, and Oseroff, 6580

Kaneko, Y. See Maseki, Kaneko, Sakurai, Kurihara, Sampi, Shimamura, and Takayama, 6767 Kaneko, Y., Kanda, N., Maseki, N., Sakurai, M., Tsuchida, Y., Takeda, T., Okabe, I., and Sakurai, M. Different Karyotypic Patterns in Early and

Advanced Stage Neuroblastomas, 311 Kanfer, J. N. See Hattori, Uemura, Ogata, Katsuyama, Taketomi, and Kanfer, 1968

Kano, T., Sakai, M., and Muramatsu, M. Structure and Expression of a Human Class π Glutathione S-Transferase Messenger RNA, 5626

Kano, Y. See Suda, Sakamoto, Hida, Kano, Takaku, and Miura, 2782

Kantarjian, H. See Plunkett, Liliemark, Adams, Nowak, Estey, Kantarjian, and Keating, 3005 ao-Shan, C-S. See Fairchild, Ivy, Kao-Shan, Whang-Peng, Rosen, Israel, Melera, Cowan,

and Goldsmith, 5141 Kao-Shan, C-S., Fine, R. L., Whang-Peng, J., Lee, E. C., and Chabner, B. A. Increased Fragile Sites and Sister Chromatid Exchanges in Bone Mar-

row and Peripheral Blood of Young Cigarette Smokers, 6278

Kanlan, J. G. See Prasad, Green Severini and Kaplan, 5397

Kaplan, M. C. See Smart, Huang, Han, Kaplan, Focella, and Conney, 6633
Kaplita, P. V. See Roebuck, Kaplita, Edwards, and

Praissman, 1333

Kapp, L. N. See Painter, Young, and Kapp, 5595 Kar, R. See Gordon, Kar, Opfell, and Wile, 5070 Karagas, M. R. See Thomas and Karagas, 5771 Karlan, B. Y. See Amin, Karlan, and Littlefield,

Karlsson, K-A. See Thurin, Thurin, Kimoto, Her-

lyn, Lubeck, Elder, Smereczynska, Karlsson, Clark, Steplewski, and Koprowski, 1229 Kasahara, T. See Furukawa, Ohta, Kasahara,

Miura, and Saito, 2589 Kasai, H. See Hayatsu, Kasai, Yokoyama, Miyazawa, Yamaizumi, Sato, Nishimura, Arimoto,

Hayatsu, and Ohara, 791 Kasid, A. See McManaway, Jagoda, Kasid, Eck-elman, Francis, Larson, Gibson, Reba, and

Lippman, 2945 Kasid, A., Knabbe, C., and Lippman, M. E. Effect of v-ras^H Oncogene Transfection on Estrogenindependent Tumorigenicity of Estrogen-dependent Human Breast Cancer Cells, 5733

Kaslow, R. A. See Schiffman, Haley, Felton, Andrews, Kaslow, Lancaster, Kurman, Brinton, Lannom, and Hoffmann, 3886

Kasprzak, K. S. See Waalkes, Rehm, Kasprzak,

and Issaq, 2445

Kasukabe, T., Honma, Y., Hozumi, M., Suda, T., and Nishii, Y. Control of Proliferating Potential of Myeloid Leukemia Cells during Long-Term Treatment with Vitamin D₃ Analogues and Other Differentiation Inducers in Combination with Antileukemic Drugs: In Vitro and in Vivo Studies, 567

Katlic, N. E. See Brueggemeier and Katlic, 4548 Kato, K. See Kikuchi, Kizawa, Oomori, Miyauchi, Kita, Sugita, Tenjin, and Kato, 592; Kikuchi, Oomori, Kizawa, Hirata, Kita, Miyauchi, and

Kato, K. See Terasaki, Shimosato, Nakajima, Tsu-

muraya, Ichinose, Nagatsu, and Kato, 3533 H., Kato, K., Asano, T., Kamiya, N., Haimoto, H., Hosoda, S., Nagasaka, A., Ariyoshi, Y., and Ishiguro, Y. Production of the α Subunit of Guanine Nucleotide-binding Protein Go by Neuroendocrine Tumors, 5800

Kato, K. P. See Ho, Kato, Durda, Murray, Wolfe, Rabin, and Carney, 241

Kato, Y. See Endo, Kato, Takeda, Saito, Ume-moto, Kishida, and Hara, 1076

Katsuyama, T. See Hattori, Uemura, Ogata, Katsuyama, Taketomi, and Kanfer, 1968

Katzenellenbogen, B. S., Kendra, K. L., Norman, M. J., and Berthois, Y. Proliferation, Hormonal Responsiveness, and Estrogen Receptor Content of MCF-7 Human Breast Cancer Cells Grown in the Short-Term and Long-Term Absence of Estrogens, 4355

Kauffman, F. C. See El Mouelhi, Didolkar, Elias,

Guengerich, and Kauffman, 460 Kaufman, D. G. See Kaufmann, Rahija, Mac-Kenzie, and Kaufman, 3771; Kaufmann, Rice, Wenk, Devor, and Kaufman, 1263; Nelson, Haskill, Sloan, Siegfried, Siegal, Walton, and Kaufman, 2814

Kaufmann, W. K., Rahija, R. J., MacKenzie, S. A., and Kaufman, D. G. Cell Cycle-dependent Initiation of Hepatocarcinogenesis in Rats by (±)-7r,8t-Dihydroxy-9t,10t-epoxy-7,8,9,10-tetrahydrobenzo(a)pyrene, 3771

Kaufmann, W. K., Rice, J. M., Wenk, M. L., Devor, D., and Kaufman, D. G. Cell Cycle-dependent Initiation of Hepatocarcinogenesis in Rats by Methyl(acetoxymethyl)nitrosamine, 1263

Kavanagh, T. J., Martin, G. M., El-Fouly, M. H., Trosko, J. E., Chang, C.C., and Rabinovitch, P. S. Flow Cytometry and Scrape-loading/Dye Transfer as a Rapid Quantitative Measure of Intercellular Communication in Vitro, 6046

Kawabata, T. T., and White, K. L., Jr. Suppression of the in Vitro Humoral Immune Response of Mouse Splenocytes by Benzo(a)pyrene Metabolites and Inhibition of Benzo(a)pyrene-induced Immunosuppression by a-Naphthofla-

Kawaguchi, T. See Fukushima, Kawaguchi, Nishida, Juni, Yamashita, Takahashi, and Nakano,

Kawaguchi, T., Nomura, K., Hirayama, Y., and Kitagawa, T. Establishment and Characteriza-tion of a Chicken Hepatocellular Carcinoma Cell Line LMH 4460

Kawahata, R. T. See Spitler, del Rio, Khentigan, Wedel, Brophy, Miller, Harkonen, Rosendorf, Lee, Mischak, Kawahata, Stoudemire, Fradkin, Bautista, and Scannon, 1717

Kawai, K. See Shiroeda, Yamaguchi, and Kawai,

Kawanishi, S. See Inoue and Kawanishi, 6522 Kawano, T. See Endo, Nishimura, Kawano, Mo-

chizuki, and Kobata, 5242

Kawashima, K. See Nagase, Rahman, Yokochi, Kawashima, Isobe, Yoshida, Nagura, and Nakashima, 6494; Yokochi, Kawashima, Nakashima, Nagase, Isobe, Nagura, Yamada, Miyadai, and Kimura, 1006

Kawashima, T. See Halldin, Cook, Kawashima,

Crutcher, and Fukuyama, 636

Kawata, M., Sekiya, S., Takamizawa, H., Mura-matsu, T., and Okumura, K. Molecular Properties of F9 Embryoglycan Recognized by a Unique Antibody in Sera from Patients with Germ Cell Tumors, 2288

Kawauchi, H. See Nitta, Takayanagi, Kawauchi, and Hakomori, 4877; Okutomi, Nakajima, Sakakibara, Kawauchi, and Yamazaki, 47 Kaye, A. H. See Scourides, Böhmer, Kaye, and

Morstyn, 3439

Kaye, S. B. See Kerr, Kaye, Cassidy, Bradley, Rankin, Adams Setanoians, Young, Forrest, Soukop, and Clavel, 6776; Stoter, Sylvester, Sleijfer, ten Bokkel Huinink, Kaye, Jones, van Oosterom, Vendrik, Spaander, and de Pauw,

Kazikiewicz, J. M. See Zimmer, Kazikiewicz, Ro-

sen, and Spies, 1691

Keating, M. J. See Maxwell, Kurzrock, Parsons, Talpaz, Gallick, Kloetzer, Arlinghaus, Kouttab, Keating, and Gutterman, 1731; Plunkett, Liliemark, Adams, Nowak, Estey, Kantarjian, and Keating, 3005

Keareney, C. See Paciucci, Keaveney, Cuttner, and

Holland, 5234 Keck, R. W. See Morgan, Garbo, Kreimer-Birnbaum, Keck, Chaudhuri, and Selman, 496

Kedinger, M. See Simon-Assmann, Bouziges, Daviaud, Haffen, and Kedinger, 4478

Keefe, K. A. See Ball, Keefe, and Colby, 6556 Keefer, L. K. See Wade, Yang, Metral, Roman, Hrabie, Riggs, Anjo, Keefer, and Mico, 3373

Keefer, L. K., Anjo, T., Wade, D., Wang, T., and Yang, C. S. Concurrent Generation of Methylamine and Nitrite during Denitrosation of N-Nitrosodimethylamine by Rat Liver Microsomes, 447

Keenan, A. M. See Mulshine, Keenan, Carrasquillo, Walsh, Linnoila, Holton, Harwell, Larson, Bunn, and Weinstein, 3572; Parker, Keenan, Dower, Steller, Holton, Sieber, and Weinstein, 2073; Stevenson, Keenan, Woodhouse, Ottow, Miller, Steller, Foon, Abrams, Beman, Larson, and Sugarbaker, 6100

Keenan, A. M., Weinstein, J. N., Carrasquillo, J. A., Bunn, P. A., Jr., Reynolds, J. C., Foon, K. A., Smarte, N. C., Ghosh, B., Fejka, R. M., Larson, S. M., and Mulshine, J. L. Immunolymphoscintigraphy and the Dose Dependence of 111 Inlabeled T101 Monoclonal Antibody in Patients with Cutaneous T-Cell Lymphoma, 6093

Kees II R Resistance to 1-8-D-Arabinofuranosylcytosine after High-Dose Treatment in Childhood Lymphoblastic Leukemia: Isolation of a Drug Resistant and a Sensitive Cell Line, 3088

Keiding, N. See Thorpe, Rose, Rasmussen, Mouridsen, Bayer, and Keiding, 6126

Keith, I. M., Olson, E. B., Jr., Wilson, N. M., and Jefcoate, C. R. Immunological Identification and Effects of 3-Methylcholanthrene and Phenobarbital on Rat Pulmonary Cytochrome P-450, page 1878

Kelland, L. R., Burgess, L., and Steel, G. G. Characterization of Four New Cell Lines Derived from Human Squamous Carcinomas of the Uterine Cervix, 4947

Keller, N. A. See Evelhoch, Keller, and Corbett,

Kelley, M. J. See Teicher, Holden, Kelley, Shea, Cucchi, Rosowsky, Henner, and Frei, 388 Kelley, P. See U, Kelley, Ashbaugh, Tatsukawa,

and Werner, 5678 Kelloff, G. See Reddy, Maruyama, and Kelloff,

5340

Kelly, A. M. See Singletary, Baker, Spitzer, Tucker, Tomasovic, Brock, Ajani, and Kelly, 403

Kelly, P. A. See Weisman, Raguet, and Kelly, 2172
Kelner, M. J., McMorris, T. C., Beck, W. T.,
Zamora, J. M., and Taetle, R. Preclinical Evaluation of Illudins as Anticancer Agents, 3186

Kemmenoe, B. H., and Malspeis, L. Distribution of [2-14C]Merbarone in Mice by Autoradiography of Whole-Body Cryosections, 1135

Kemp, K. See Jones, Ota, Jackson, Jackson, Kemp, Anderson, McCamant, and Bauman, 5224 Kempf, R. A. See Grunberg, Kempf, Venturi, and

Mitchell, 1174

Kemshead, J. T. See Matsumura, Sugimoto, Sawada, Amagai, Negoro, and Kemshead, 2924; Sugimoto, Sawada, Matsumura, Horii, Kemshead, Suzuki, Okada, Tagaya, and Hino, 5433 Kendal, W. S., Wang, R-Y., Hsu, T. C., and Frost,

P. Rate of Generation of Major Karyotypic Abnormalities in Relationship to the Metastatic Potential of B16 Murine Melanoma, 3835

Kendra, K. L. See Katzenellenbogen, Kendra, Norman, and Berthois, 4355

Keng, P. C. See Chang and Keng, 4338 Kennedy, K. A. See Parker, Kennedy, and Klubes,

Kennedy, S. See Spigelman, Dowers, Kennedy, DiSorbo, O'Brien, Barr, and McCaffrey, 4694 Kensler, T. W., Egner, P. A., Dolan, P. M., Groop-man, J. D., and Roebuck, B. D. Mechanism of

Protection against Aflatoxin Tumorigenicity in Rats Fed 5-(2-Pyrazinyl)-4-methyl-1,2-dithiol-3-thione (Oltipraz) and Related 1,2-Dithiol-3thiones and 1,2-Dithiol-3-ones, 4271

Kerbel, R. S. See Frost, Kerbel, Hunt, Man, and Pathak, 2690; Liteplo, and Kerbel, 2264

Kern, K. A., and Norton, J. A. Autoradiographic Imaging of Rat Sarcoma in Different Anatomical Sites Using 2-[14C]Deoxyglucose, 4706 Kerr, D. J., Kaye, S. B., Cassidy, J., Bradley, C.,

Rankin, E. M., Adams, L., Setanoians, A., Young, T., Forrest, G., Soukop, M., and Clavel, M. Phase I and Pharmacokinetic Study of Flavone Acetic Acid, 6776

Kerrigan, D. See Markovits, Pommier, Kerrigan,

Covey, Tilchen, and Kohn, 2050 Keski-Oja, J., Lyons, R. M., and Moses, H. L. Immunodetection and Modulation of Cellular Growth with Antibodies against Native Trans-

forming Growth Factor-β, 6451
Kessel, D., Thompson, P., Musselman, B., and
Chang, C. K. Probing the Structure and Stability of the Tumor-localizing Derivative of Hematoporphyrin by Reductive Cleavage with LiAIH.

Kessie, G. See Hamilton, Hyland, McAvinchey, Chaudhry, Hartka, Kim, Cichon, Floyd, Turjman, Kessie, Nair, and Dick, 1551

Kessler, D. J., Heilman, C. A., Cossman, J., Maguire, R. T., and Thorgeirsson, S. S. Transformation of Epstein-Barr Virus Immortalized Human B-Cells by Chemical Carcinogens, 527

Keyes, S. R., Rockwell, S., and Sartorelli, A. C. Correlation between Drug Uptake and Selective Toxicity of Porfiromycin to Hypoxic EMT6 Cells, 5654

Keys, B. See Romkes, Piskorska-Pliszczynska, Keys, Safe, and Fujita, 5108

Khan, S. See Preisler, Kinniburgh, Wei-Dong, and Khan, 874

Khan, W. A. See Das, Khan, Asokan, Bickers, and Mukhtar, 767 Khandekar, J. D. See Murthy, Rao, Khandekar,

and Scanlon, 774
Khayat, D., Lokiec, F., Bizzari, J-P., Weil, M.,
Meeus, L., Sellami, M., Rouesse, J., Banzet, P.,
and Jacquillat, C. Phase I Clinical Study of the New Amino Acid-linked Nitrosourea, S 10036, Administered on a Weekly Schedule, 6782

Khentigan, A. See Spitler, del Rio, Khentigan, Wedel, Brophy, Miller, Harkonen, Rosendorf, Lee, Mischak, Kawahata, Stoudemire, Fradkin, Bautista, and Scannon, 1717

Khokhar, A. R. See Perez-Soler, Khokhar, and Lonez-Berestein, 6462

Khoury, G. See Garbisa, Pozzatti, Muschel, Saffiotti, Ballin, Goldfarb, Khoury, and Liotta, 1523

Kiang, D. T. See Thomas and Kiang, 1799 Kieber-Emmons, T. See Ishikura, Honma, Honma,

Hozumi, Black, Kieber-Emmons, and Bloch,

Kiefer, P. E., Bepler, G., Kubasch, M., and Havemann, K. Amplification and Expression of Protooncogenes in Human Small Cell Lung Cancer Cell Lines, 6236

Kikkawa, Y. See Omar, Yano, and Kikkawa, 3473 Kikuchi, H. See Manda, Shimomura, Mukumoto, Kobayashi, Mizota, Hirai, Matsumoto, Oku, Ni-

shigaki, Mori, and Kikuchi, 3707 Kikuchi, K. See Sato, Yagihashi, Okubo, Torigoe, Takahashi, Sato, and Kikuchi, 3147

Kikuchi, Y., Kizawa, I., Oomori, K., Miyauchi, M., Kita, T., Sugita, M., Tenjin, Y., and Kato, K. Establishment of a Human Ovarian Cancer Cell Line Capable of Forming Ascites in Nude Mice and Effects of Tranexamic Acid on Cell Proliferation and Ascites Formation, 592

Kikuchi, Y., Oomori, K., Kizawa, I., Hirata, J., Kita, T., Miyauchi, M., and Kato, K. Enhance-ment of Antineoplastic Effects of Cisplatin by Calmodulin Antagonists in Nude Mice Bearing Human Ovarian Carcinoma, 6459

Kim, D. J. See Kim, Kim, Geyer, and Howell,

Kim, H. T. See Hamilton, Hyland, McAvinchey, Chaudhry, Hartka, Kim, Cichon, Floyd, Turjman, Kessie, Nair, and Dick, 1551 Kim, K. S. See Patierno, Tuscano, Kim, Landolph,

and Lee, 6220

Kim, S. See Zimm, Cleary, Lucas, Weiss, Mark-man, Andrews, Schiefer, Kim, Horton, and

Kim, S., Kim, D. J., Geyer, M. A., and Howell, S. B. Multivesicular Liposomes Containing 1-β-D-Arabinofuranosylcytosine for Slow-Release Intrathecal Therapy, 3935

Kim, S. H. See Suzuki, Kim, Tahara, Okazaki, Okabe, Wu, and Tanaka, 713

Kim, Y. S. See Bresalier, Hujanen, Raper, Roll, Itzkowitz, Martin, and Kim, 1398; Kuan, Byrd, Basbaum, and Kim, 5715

Kim, Y. T. See Tusda, Kim, Siskind, DeBlasio, Schwab, Ershler, and Weksler, 3097

Kimoto, Y. See Thurin, Thurin, Kimoto, Herlyn, Lubeck, Elder, Smereczynska, Karlsson, Clark, Steplewski, and Koprowski, 1229 Kimura, A. See Mehta, Lawson, Ward, Kimura,

and Gee, 3115 Kimura, H. See Yamori, Kimura, Stewart, Ota,

Cleary, and Irimura, 2741 Kimura, K. See Tanaka, Kimura, and Yoshida,

Kimura, S. See Fujii, Kimura, Arai, and Sendo,

Kimura, S., Inoue, T., Yamashita, T., Midorikawa,

6204

Kimura, Y. See Yokochi, Kawashima, Nakashima. Nagase, Isobe, Nagura, Yamada, Miyadai, and Kimura, 1006

Kinahan, J. J. See Fanucchi, Kinahan, Samuels, Hancock, Chou, Niedzwiecki, Farag, Vidal, DeGraw, Sternberg, Sirotnak, and Young, 2334 King, R. J. B. See Darbre and King, 2937

King, S. A. See O'Dwyer, King, Hoth, and Leyland-Jones, 3911

Kinkade, J. M., Jr. See Parmley, Akin, Barton, Gilbert, and Kinkade, 4932

Kinniburgh, A. J. See Ohyashiki, Ohyashiki, Sandberg, Minowada, and Kinniburgh, 3842; Preisler, Kinniburgh, Wei-Dong, and Khan, 874 Kirkpatrick, D. L. Modification of Antitumor Di-

sulfide Cytotoxicity by Glutathione Depletion in Murine Cells, 4391

Kirsh, R. L. See Bugelski, Corwin, North, Kirsh, colson, and Poste, 4141

Nicolson, and Poste, 4141 Kishida, K. See Endo, Kato, Takeda, Saito, Ume-moto, Kishida, and Hara, 1076 Kiss, Z., Deli, E., Shoji, M., Koeffler, H. P., Pettit, G. R., Vogler, W. R., and Kuo, J. F. Differential Effects of Various Protein Kinase C Activators on Protein Phosphorylation in Human Acute Myeloblastic Leukemia Cell Line KG-1 and Its Phorbol Ester-resistant Subline KG-1a, 1302

Kisugi, J., Kamiya, H., and Yamazaki, M. Purification and Characterization of Aplysianin-E, an Antitumor Factor from Sea Hare Eggs, 5649

Kita, T. See Kikuchi, Kizawa, Oomori, Miyauchi, Kita, Sugita, Tenjin, and Kato, 592; Kikuchi, Oomori, Kizawa, Hirata, Kita, Miyauchi, and

Kitagawa, I. See Ota, Fujikawa-yamamoto, Zong Yamazaki, Odashima, Kitagawa, Abe, and Arichi. 3863

Kitagawa, T. See Kawaguchi, Nomura, Hirayama, and Kitagawa, 4460

Kitagawa, Y. See Manabe, Yanagisawa, Ishikawa,

Kitagawa, Kanai, and Wada, 6150 Kitamura, T. See Ikeda, Nakano, Nagashima, Sak-amoto, Harasawa, Kitamura, Nakamura, and Nagamachi, 231

ra, Y. See Noguchi, Nishizawa, Nakamura, Uchida, Yamaguchi, Sato, Kitamura, and Matsumoto, 263

Kizawa, I. See Kikuchi, Kizawa, Oomori, Miyauchi, Kita, Sugita, Tenjin, and Kato, 592; Kikuchi, Oomori, Kizawa, Hirata, Kita, Miyauchi, and Kato, 6459

Klajman, A. See Rabinowich, Cohen, Bruderman,

Steiner, and Klaiman, 173

Klein, A. S., Lang, R., Eshel, I., Sharabi, Y., and Shoham, J. Modulation of Immune Response and Tumor Development in Tumor-bearing Mice Treated by the Thymic Factor Thymostimulin, 3351

Klein, B., Jourdan, M., Vazquez, A., Dugas, B., and Bataille, R. Production of Growth Factors by Human Myeloma Cells, 4856

Klein, G., Osato, T., and Purtilo, D. T. Sixth Sap-poro Cancer Seminar, 918, Meeting Report Klein, I. See van Hennik, van der Vijgh, Klein,

Elferink, Vermorken, Winograd, and Pinedo, 6297

Klein, J. C., Zurcher, C., and van Bekkum, D. W. Differential Behavior of Human Bronchial Carcinoma Cells in Culture, 3251

Kleinman, H. K. See Albini, Iwamoto, Kleinman, Martin, Aaronson, Kozlowski, and McEwan, 3230

Klein-Szanto, A. J. P. See Baba, Klein-Szanto, Trono, Obara, Yoakum, Masui, and Harris, 573 Klemme, J. C., Mukhtar, H., and Elmets, C. A. Induction of Contact Hypersensitivity to Dimethylbenz(a)anthracene and Benzo(a)pyrene

in C3H Mice, 6074 Klevecz, R. R., Shymko, R. M., Blumenfeld, D., and Braly, P. S. Circadian Gating of S Phase in

Human Ovarian Cancer, 6267

Kligerman, A. D., Erexson, G. L., Wilmer, J. L., and Schold, S. C., Jr. Sister Chromatid Ex-change Induction in Patients with Anaplastic Gliomas Undergoing Treatment with Radiation plus Diaziquone or 1,3-Bis(2-chloroethyl)-1-nitrosourea, 631

Klijn, J. G. M. See Reubi, Maurer, von Werder, Torhorst, Klijn, and Lamberts, 551; Setyono-Han, Henkelman, Foekens, and Klijn, 1566 Klinge, C. M., Bambara, R. A., Zain, S., and Hilf,

R. Estrogen Receptor Binding to Nuclei from Normal and Neoplastic Rat Mammary Tissues in Vitro, 2852

Klingebiel, T. See Ehninger, Klingebiel, Kumbier,

Schuler, Feine, Treuner, and Waller, 6147 Klingel, R. See Dippold, Bernhard, Klingel, Dienes, Kron, Schneider, Knuth, and Meyer zum Büschenfelde, 3873; Dippold, Klingel, Bernhard, Dienes, Knuth, and Myer zum Büs-

chemeuce, 2092
Klingel, R., Mincheva, A., Kahn, T., Gissmann, L.,
Dippold, W., Meyer zum Büschenfelde, K-H.,
and zur Hausen, H. An Amplification Unit in
Human Melanoma Cells Showing Partial Homology with Sequences of Human Papilloma-virus Type 9 and with Nuclear Antigen 1 of the

Epstein-Barr Virus, 4485 Klinken, S. P., Billelo, J., Bauer, S., Morse, H. C., III, and Thorgeirsson, S. S. Altered Expression of β-Globin, Transferrin Receptor, and Ornithine Decarboxylase in Friend Murine Erythro-leukemia Cells Inhibited by α -Difluoromethylornithine, 2638

Kloetzer, W. S. See Maxwell, Kurzrock, Parsons, Talpaz, Gallick, Kloetzer, Arlinghaus, Kouttab,

Keating, and Gutterman, 1731 Klöppel, G. See Knöfel, Otto, Baisch, and Klöppel,

Klos, D. J. See Fernandez-Pol, Klos, Hamilton, and Talkad, 4260

Klostergaard, J., Leroux, M. E., Ezell, S. M., and Kull, F. C., Jr. Tumoricidal Effector Mechanisms of Murine Bacillus Calmette-Guérin-activated Macrophages: Mediation of Cytolysis, Mitochondrial Respiration Inhibition, and Release of Intracellular Iron by Distinct Mechanisms,

Klubes, P. See Hiraga, Klubes, Owens, Cysyk, and Blasberg, 3296; Parker, Kennedy, and Klubes,

Klurfeld, D. M., Weber, M. M., and Kritchevsky, D. Inhibition of Chemically Induced Mamma and Colon Tumor Promotion by Caloric Restriction in Rats Fed Increased Dietary Fat.

Knabbe, C. See Kasid, Knabbe, and Lippman, 5733 Knöfel, W. T., Otto, U., Baisch, H., and Klöppel, G. Stability of Human Renal Cell Carcinomas during Long Term Serial Transplantation into Nude Mice: Histopathology, Nuclear Grade, Mitotic Rate, and DNA Content in Thirty Tumors, 221

Knop, R. H., Carney, D. N., Chen, C. W., Cohen, J. S., and Minna, J. D. Levels of High Energy Phosphates in Human Lung Cancer Cell Lines ³¹P Nuclear Magnetic Resonance Spectrosby сору, 3357

Knowles, D. M. See Giacomini, Viora, Tecce, Knowles, Natali, and Ferrone, 5175 Knowles, P. P. See Blakey, Watson, Knowles, and Thorpe, 947; Thorpe, Wallace, Knowles, Relf, Brown, Watson, Knyba, Wawrzynczak, and Blakey, 5924

Knudsen, K. A. See Tuszynski, Gasic, Rothman, Knudsen, and Gasic, 4130

Knuth, A. See Dippold, Bernhard, Klingel, Dienes, Kron, Schneider, Knuth, and Meyer zum Bü-schenfelde, 3873; Dippold, Klingel, Bernhard, Dienes, Knuth, and Meyer zum Büschenfelde, 2092

Knutsen, C. A. See Wollner, Knutsen, Ullrich, Chrisp, Juni, Andrews, Tuscan, Stetson, and Ensminger, 3285

Knutsen, T. See Behrens, Hamilton, Masuda, Grotzinger, Whang-Peng, Louie, Knutsen, McKoy, Young, and Ozols, 414

Knyba, R. E. See Thorpe, Wallace, Knowles, Relf, Brown, Watson, Knyba, Wawrzynczak, and Blakey, 5924

Ko, I-Y., Park, S. S., Song, B. J., Patten, C., Tan, Y., Hah, Y. C., Yang, C. S., and Gelboin, H. V. Monoclonal Antibodies to Ethanol-induced Rat Liver Cytochrome P-450 That Metabolizes Aniline and Nitrosamines, 3101

Kobata, A. See Endo, Nishimura, Kawano, Mochizuki, and Kobata, 5242; Yamashita, Totani,

Kuroki, Matsuoka, Ueda, and Kobata, 3451 Kobayashi, H. See Chiba, Oikawa, Naiki, Takimoto, Miyoshi, Mizuno, Yamashina, Yamag-iwa, and Kobayashi, 1815; Fujii, Yuki, Takeichi, Kobayashi, and Miyazaki, 1668; Itaya, Yamagiwa, Okada, Oikawa, Kuzumaki, Takeichi, Ho-sokawa, and Kobayashi, 3136; Matsuoka, Takeichi, and Kobayashi, 3410; Morikawa, Okada, Hosokawa, and Kobayashi, 37

Kobayashi, K. See Manda, Shimomura, Mukumoto, Kobayashi, Mizota, Hirai, Matsumoto, Oku, Nishigaki, Mori, and Kikuchi, 3707

Kobayashi, M. See Shiraishi, Akiyama, Nakagawa, Kobayashi, and Kuwano, 2413

Koch, C. J. See Franko, Koch, Garrecht, Sharplin, and Hughes, 5367

Kochevar, I. E. See Green, Boll, Parrish, Kochevar, and Oseroff, 410

Koda, J. E. See Bray, Koda, and Gaur, 5853 Koeffler, H. P. See Kiss, Deli, Shoji, Koeffler, Pettit, Vogler, and Kuo, 1302; Munker, Munker, Saxton, and Koeffler, 4081; Shoji, Girard, Charp, Koeffler, Vogler, and Kuo, 6363

Koehler, A. See Bepler, Jaques, Havemann, Koehler, Johnson, and Gazdar, 1883

Koeller, J. See Trump, Tutsch, Willson, Remick. Simon, Alberti, Grem, Koeller, and Tormey, 3895

Koestier, T. P., Johnson, W. J., Rieman, D., Dalton, B. J., Greig, R. G., and Poste, G. Differential Expression of Murine Macrophage-mediated Tumor Cytotoxicity Induced by Interferons, 2804

Koestner, A. See Marushige, Raju, Marushige, and

Koestner, 4109

Koff, W. C., Dunegan, M. A., Chakrabarty, M. K.,

Hampar, B., and Showalter, S. D. Herpes Simplex Virus-induced Suppression of Macrophagemediated Tumoricidal Activity in Murine Mac-

rophages, 1534 Koga, Y. See Tanaka, Koga, Taniguchi, and No-

moto, 2136

Kogekar, N., Spurgeon, T. L., Simon, M. C., and Smith, R. E. Proliferative Fibromatosis in Avian Skeletal Muscle Caused by Cloned Recombinant Avian Leukosis Viruses, 2083

Kohl, N. E. See Kanda, Tsuchida, Hata, Kohl, Alt, Latt, and Utakoji, 3291

Kohn, F. R., Landkamer, G. J., Manthey, C. L., Ramsay, N. K. C., and Sładek, N. E. Effect of Aldehyde Dehydrogenase Inhibitors on the ex Vivo Sensitivity of Human Multipotent and Committed Hematopoietic Progenitor Cells and Malignant Blood Cells to Oxazaphosphorines 3180

Kohn, K. W. See Markovits, Pommier, Kerrigan, Covey, Tilchen, and Kohn, 2050; Sariban, Kohn, Zlotogorski, Laurent, D'Incalci, Day, Smith, Kornblith, and Erickson, 3988; Wu, Hurst-Calderone, and Kohn, 6229

Kohrman, A. F. See Bern, Edery, Mills, Kohrman, Mori, and Larson, 4165

Kohsaka, M. See Izumi, Hirai, Hayashi, Konishi, Okuhara, Kohsaka, Aoki, and Yamamura, 1785 Koizumi, M. See Matsuoka, Nakashima, Endo, Yoshida, Kunimatsu, Sakahara, Koizumi, Nakagawa, Yamaguchi, and Torizuka, 6335

Kolonel, L. N. See Bertram, Kolonel, and Meyskens, 3012

Kolonel, L. N., Hankin, J. H., and Yoshizawa, C. N. Vitamin A and Prostate Cancer In Elderly Men: Enhancement of Risk, 2982

Komatsu, N., Suda, T., Suda, J., and Miura, Y. Survival of Highly Proliferative Colony Forming Cells after Treatment of Bone Marrow Cells with 4-Hydroperoxycyclophosphamide, 6371 Komives, E. A. See Kaden, Call, Leong, Komives,

and Thilly, 1993

Kondo, K. See Suzuki, Kondo, Tominaga, Kuroki, and Matsuoka, 4782

Kondo, T. See Ogawa, Kondo, Sugiyama, Ogawa, Satake, and Ozawa, 1239

Konishi, Y. See Izumi, Hirai, Hayashi, Konishi, Okuhara, Kohsaka, Aoki, and Yamamura, 1785 Konno, H., Suzuki, H., Tadakuma, T., Kumai, K., Yasuda, T., Kubota, T., Ohta, S., Nagaike, K., Hosokawa, S., Ishibiki, K., Abe, O., and Saito, K. Antitumor Effect of Adriamycin Entrapped in Liposomes Conjugated with Anti-Human α-Fetoprotein Monoclonal Antibody, 4471 Konno, T. See Yamasaki, Konno, Miyauchi, and

Maeda, 852

Koole, P. See Sijens, Bovée, Seijkens, Koole, Los, and van Rijssel, 6467Koper, J. W. See Reubi, Lang, Maurer, Koper,

and Lamberts, 5758

Koprowski, H. See Herlyn, Rodeck, Mancianti, Cardillo, Lang, Ross, Jambrosic, and Koprowski, 3057; Rodeck, Herlyn, Herlyn, Molthoff, Atkinson, Varello, Steplewski, and Koprowski, 3692; Takahashi, Herlyn, Atkinson, Powe, Rodeck, Alavi, Bruce, and Koprowski, 3847; Thurin, Thurin, Kimoto, Herlyn, Lubeck, Elder, Smereczynska, Karlsson, Clark, Steplewski, and Koprowski, 1229

Kopstad, G. See Tvedt, Kopstad, Haugen, and

Halgunset, 323

Korc, M. See Brockenbrough and Korc, 1805 Korc, M., Haussler, C. A., and Trookman, N. S. Divergent Effects of Epidermal Growth Factor and Transforming Growth Factors on a Human Endometrial Carcinoma Cell Line, 4909

Korn, E. L. See Hoon, Korn, and Cochran, 1740 Kornblith, P. L. See Sariban, Kohn, Zlotogorski, Laurent, D'Incalci, Day, Smith, Kornblith, and Erickson. 3988

Kornhauser, D. M. See Warren, LaCreta, Korn-

hauser, and Williams, 5261 Kornstein, M. J., Stewart, R., and Elder, D. E. Natural Killer Cells in the Host Response to Melanoma, 1411

Korpela, R. See Reddy, Sharma, Simi, Engle, Laakso, Puska, and Korpela, 644

Korsmeyer, S. J. See Raffeld, Wright, Lipford, Cossman, Longo, Bakhshi, and Korsmeyer, 2537

Koss, L. G. See Czerniak, Herz, Wersto, and Koss, 2826

Koths, K. See Doyle, Koths, Brindley, Fong, Halenbeck, Ransom, Pomato, Cleveland, McCabe, and Hanna, 914

Kotler, M. See Ben-David, Yefenof, and Kotler, 6590

Kouttab, N. M. See Maxwell, Kurzrock, Parsons, Talpaz, Gallick, Kloetzer, Arlinghaus, Kouttab, Keating, and Gutterman, 1731

Kovatch, R. M. See Lijinsky, Kovatch, and Riggs, 3968

Kovnar, E. H. See Goren, Wright, Pratt, Horowitz, Dodge, Viar, and Kovnar, 1457

Koyama, S., Mukai, R., Fukao, K., Arimura, H., Iwasaki, Y., and Osuga, T. Monoclonal Antibody against Human Gallbladder Carcinomaassociated Antigen. 4667

Kozak, S., Rizzoli, R., Trechsel, U., and Fleisch, H. Effect of a Single Injection of Two New Bisphosphonates on the Hypercalcemia and Hypercalciuria Induced by Walker Carcinosarcoma 256/B in Thyroparathyroidectomized Rats, 6103

Kozlowski, J. M See Albini, Iwamoto, Kleinman, Martin, Aaronson, Kozlowski, and McEwan, 3239

Kradin, R. L. See Fingert, Chen, Mizrahi, Gajewski, Bamberg, and Kradin, 3824

Kraemer, K. H. See Nagasawa, Kraemer, Shiloh, and Little, 398

Krailo, M. See Avramis, Biener, Krailo, Finklestein, Ettinger, Willoughby, Siegel, and Holcenberg, 6786

Kramer, B. S. See Park, Kramer, Steinberg, Carmichael, Collins, Minna, and Gazdar, 5875
Kramer, R. A., Greene, K., Ahmad, S., and Vistica,

Kramer, R. A., Greene, K., Ahmad, S., and Vistica, D. T. Chemosensitization of L-Phenylalanine Mustard by the Thiol-modulating Agent Buthionine Sulfoximine, 1593

Kramer, S. See Bunin, Kramer, Marrero, and Meadows, 2972

Kramp, D. C. See Kahan and Kramp, 6324
Kraut, E. H. See Leiby, Snider, Kraut, Metz, Malspeis, and Grever, 2719

Kreimer-Birnbaum, M. See Morgan, Garbo, Kreimer-Birnbaum, Keck, Chaudhuri, and Selman,

Kreis, W. See Ahmann, Crawford, Kreis, Levasseur, and the Aminoglutethimide Study Group, 4736

Krischer, J. P. See Findley, Steuber, Krischer, and Ragab, 4225

Krishnan, R. See Goldstein, Gockerman, Krishnan, Ritchie, Tso, Hood, Ellinwood, and Laszlo, 6397

Kritchevsky, D. See Klurfeld, Weber, and Kritchevsky, 2759

Krolick, K. A. See LeMaistre, Edwards, Krolick, and McGuire, 730

Kron, G. See Dippold, Bernhard, Klingel, Dienes, Kron, Schneider, Knuth, and Meyer zum Büschenfelde, 3873

Krug, E., and Tashjian, A. H., Jr. Time-dependent Changes in Protein Kinase C Distribution and Disappearance in Phorbol Ester-treated Human Osteosarcoma Cells, 2243

Kruszewski, F. H., Conti, C. J., and DiGiovanni, J. Characterization of Skin Tumor Promotion and Progression by Chrysarobin in SENCAR Mice, 3783

Kuan, S-F., Byrd, J. C., Basbaum, C. B., and Kim, Y. S. Characterization of Quantitative Mucin Variants from a Human Colon Cancer Cell Line, 5715

Kubasch, M. See Kiefer, Bepler, Kubasch, and Havemann, 6236

Kubo, E. See Muto, Kubo, and Sado, 3469 Kubota, M. See Yamanaka, Kubota, and Carson, 1771

Kubota, T. See Konno, Suzuki, Tadakuma, Kumai, Yasuda, Kubota, Ohta, Nagaike, Hosokawa, Ishibiki, Abe, and Saito, 4471

Kuda, T. See Yasumoto, Miyazaki, Nagashima, Ishida, Kuda, Yano, Sugimachi, and Nomoto, 2184

Kuda, T., Yasumoto, K., Yano, T., Nakahashi, H., Sugimachi, K., and Nomoto, K. Role of Antitumor Activity of Alveolar Macrophages in Lung Cancer Patients. 2199

Kudo, A. See Nishimura, Yokoyama, Araki, Ueda, Kudo, and Watanabe, 999

Kufe, D. See Spriggs, Robbins, Ohno, and Kufe, 6532

Kuhns, W. See Schoentag, Primus, and Kuhns, 1695

Kull, F. C., Jr. See Klostergaard, Leroux, Ezell, and Kull, 2014

Kumai, K. See Konno, Suzuki, Tadakuma, Kumai, Yasuda, Kubota, Ohta, Nagaike, Hosokawa, Ishibiki, Abe, and Saito, 4471

Kumar, S. A. See Gierthy, Lincoln, Gillespie, Seeger, Martinez, Dickerman, and Kumar, 6198Kumbier, I. See Ehninger, Klingebiel, Kumbier, Schuler, Feine, Treuner, and Waller, 6147

Kun, L. E. See Horowitz, Parham, Douglass, Kun, Houghton, and Houghton, 499

Kunicka, J. E., Darzynkiewicz, Z., and Melamed, M. R. DNA in Situ Sensitivity to Denaturation: A New Parameter for Flow Cytometry of Normal Human Colonic Epithelium and Colon Carcinoma, 3942

Kunimatsu, M. See Matsuoka, Nakashima, Endo, Yoshida, Kunimatsu, Sakahara, Koizumi, Nakagawa, Yamaguchi, and Torizuka, 6335

Kunimoto, T., Nitta, K., Tanaka, T., Uehara, N., Baba, H., Takeuchi, M., Yokokura, T., Sawada, S., Miyasaka, T., and Mutai, M. Antitumor Activity of 7-Ethyl-10-[4-(1-piperidino)-1-piperidino)carbonyloxy-camptothecin, a Novel Watersoluble Derivative of Camptothecin, against Murine Tumors, 5944

Kunz, W. See Buchmann, Schwarz, Schmitt, Wolf, Oesch, and Kunz, 2911

Kuo, J. F. See Girard, Stevens, Blackshear, Merrill, Wood, and Kuo, 2892; Kiss, Deli, Shoji, Koeffler, Pettit, Vogler, and Kuo, 1302; Shoji, Girard, Charp, Koeffler, Vogler, and Kuo, 6363 Kurata, N. See Kurata, Kurata, and Ikawa, 5908

Kurata, S.-i., Kurata, N., and Ikawa, Y. Production of Recombinant Rat Viruses as a Method of Oncogene Isolation in Coculture Medium, 5908

Kurata, Y. See Fukushima, Shibata, Shirai, Kurata, Tamano, and Imaida, 4821; Mori, Kurata, Takeuchi, Toyama, Makino, and Fukushima, 3492 Kuratomi, Y. See Yasutake, Kuratomi, Ono, Masumi, and Kuwano, 4894

Kurihara, M. See Maseki, Kaneko, Sakurai, Kurihara, Sampi, Shimamura, and Takayama, 6767
Kurman, R. J. See Schiffman, Haley, Felton, Andrews, Kaslow, Lancaster, Kurman, Brinton, Lannom, and Hoffmann, 3886

Kuroiwa, T., Aoki, K., Taniguchi, S., Hasuda, K., and Baba, T. Efficacy of Two-Route Chemotherapy Using cis-Diamminedichloroplatinum(II) and Its Antidote, Sodium Thiosulfate, in Combination with Angiotensin II in a Rat Limb Tumor, 3618

Kuroki, M. See Matsunaga, Kuroki, Higuchi, Arakawa, Takakura, Okamoto, and Matsuoka, 56; Suzuki, Kondo, Tominaga, Kuroki, and Matsuoka, 4782; Yamashita, Totani, Kuroki, Matsuoka, Ueda, and Kobata, 3451

Kuroki, T. See Hashiba, Fukushima, Chida, and Kuroki, 5031

Kurtzberg, J. See Haleem, Kurtzberg, Olsen, Rhinehardt-Clark, Leslie, Ray, Smith, Peters, Haynes, and Bast, 4608

Kurzrock, R. See Maxwell, Kurzrock, Parsons, Talpaz, Gallick, Kloetzer, Arlinghaus, Kouttab, Keating, and Gutterman, 1731

Kusama, M. See Liao, Smith, Kwong, Natali, Kusama, Hamby, and Ferrone, 4835

Kusama, M., Kageshita, T., Tsujisaki, M., Perosa, F., and Ferrone, S. Syngeneic Antidiotypic Antisera to Murine Antihuman High-Molecular-Weight Melanoma-associated Antigen Monoclonal Antibodies, 4312

Kute, T. E. See Sur, Fernandes, Kute, and Capizzi, 1313

Kutlaca, R. J. See Seshadri, Kutlaca, Trainor, Matthews, and Morley, 407

Kuwano, H. See Matsuoka, Sugimachi, Ueo, Kuwano, Nakano, and Nakayama, 4134

Kuwano, M. See Shiraishi, Akiyama, Nakagawa, Kobayashi, and Kuwano, 2413; Yasutake, Kuratomi, Ono, Masumi, and Kuwano, 4894

ratomi, Ono, Masumi, and Kuwano, 4894 Kuzumaki, N. See Itaya, Yamagiwa, Okada, Oikawa, Kuzumaki, Takeichi, Hosokawa, and Kobayashi, 3136

Kvalheim, G., Fodstad, Ø., Pihl, A., Nustad, K., Pharo, A., Ugelstad, J., and Funderud, S. Elimination of B-Lymphoma Cells from Human Bone Marrow: Model Experiments Using Monodisperse Magnetic Particles Coated with Primary Monoclonal Antibodies, 846

Kvinnsland, S. See Lea, Kvinnsland, and Thorsen, 6189

Kwa, R. See Ilett, David, Detchon, Castleden, and Kwa, 1466

Kwon, C-H., Maddison, K., LoCastro, L., and Borch, R. F. Accelerated Decomposition of 4-Hydroxycyclophosphamide by Human Serum Albumin, 1505

Kwong, P. C. See Liao, Smith, Kwong, Natali, Kusama, Hamby, and Ferrone, 4835

L

Laakso, K. See Reddy, Sharma, Simi, Engle, Laakso, Puska, and Korpela, 644

Labateya, N., Thomson, D. M. P., Durko, M., Shenouda, G., Robb, L., and Scanzano, R. Extraction of Human Organ-specific Cancer Neoantigens from Cancer Cells and Plasma Membranes with 1-Butanol, 1058

LaBella, F. S. See Brandes, Bogdanovic, Cawker, and LaBella, 4025

Laboisse, C. See Augenlicht, Augeron, Yander, and Laboisse, 3763

LaCreta, F. P. See Warren, LaCreta, Kornhauser, and Williams, 5261

Laferté, S., Fukuda, M. N., Fukuda, M., Dell, A., and Dennis, J. W. Glycosphingolipids of Lectinresistant Mutants of the Highly Metastatic Mouse Tumor Cell Line, MDAY-D2, page 150 Lafleur, M. V. M. See van Maanen, de Vries,

Pappic, van den Akker, Lafleur, Retèl, van der Greef, and Pinedo, 4658

Laforge, J. See Rinehart, Young, Laforge, Col-

born, and Neidhart, 2481

Lafreniere, R. See Eisenthal, Lafreniere, Lefor, and Rosenberg, 2771

Laguzza, B. C. See Johnson and Laguzza, 3118 Lah, T. T. See Rozhin, Robinson, Stevens, Lah, Honn, Ryan, and Sloane, 6620 Lai, E. V. Y. See Jarrell, Lai, Barr, McMahon,

Belbeck, and O'Connell, 2340

Lalanne, C. M. See Gioanni, Samson, Zanghellini, Mazeau, Ettore, Demard, Chauvel, Duplay,

Schneider, Laurent, and Lalanne, 4417 Lamb, P. W. See Gilmer, Lamb, Oshimura, and Barrett, 4663

Lambert, M. E. See Ronai, Lambert, Johnson, Okin, and Weinstein, 4565

Lamberts, S. W. J. See Reubi, Lang, Maurer, Koper, and Lamberts, 5758; Reubi, Maurer, von Werder, Torhorst, Klijn, and Lamberts, 551

erts, S. W. J., van Koetsveld, P., and Verley T. Prolactin Release-inhibitory Effects of Progesterone, Megestrol Acetate, and Mifepristone (RU 38486) by Cultured Rat Pituitary Tumor Cells, 3667

Lamers, C. B. H. W. See de Bruin, Griffioen,

Verspaget, Verheijen, and Lamers, 4654 Lamm, K. R. See Luster, Germolec, Burleson, Jameson, Ackermann, Lamm, and Hayes, 2259 Lamport, D. See Burchell, Gendler, Taylor-Papa-dimitriou, Girling, Lewis, Millis, and Lamport, 5476

Lancaster, W. D. See Schiffman, Haley, Felton, Andrews, Kaslow, Lancaster, Kurman, Brinton, Lannom, and Hoffmann, 3886

Landay, A. L., Zarcone, D., Grossi, C. E., and Bauer, K. Relationship between Target Cell Cycle and Susceptibility to Natural Killer Lysis,

Landkamer, G. J. See Kohn, Landkamer, Man-

they, Ramsay, and Sladek, 3180 andolph, J. R. See Biedermann and Landolph, Lando 3815; Billings, Shuin, Lillehaug, Miura, Roy-Burman, and Landolph, 3643; Patierno, Tuscano, Kim, Landolph, and Lee, 6220

Lane, B. See Zucker, Wieman, Lysik, Wilkie, Ra-

mamurthy, Golub, and Lane, 1608 Lane, P., Vichi, P., Bain, D. L., and Tritton, T. R. Temperature Dependence Studies of Adriamycin Uptake and Cytotoxicity, 4038

Lang, A. See Herlyn, Rodeck, Mancianti, Cardillo, Lang, Ross, Jambrosic, and Koprowski, 3057 Lang, R. See Klein, Lang, Eshel, Sharabi, and Shoham, 3351

Lang, W. See Reubi, Lang, Maurer, Koper, and

Lamberts, 5758

Langdon, S. P. See Stevens, Hickman, Langdon, Chubb, Vickers, Stone, Baig, Goddard, Gibson, Slack, Newton, Lunt, Fizames, and Lavelle,

Langdon, S. P., and Hickman, J. A. Correlation between the Molecular Weight and Potency of Polar Compounds Which Induce the Differentiation of HL-60 Human Promyelocytic Leukemia Cells, 140

Langenbach, R. See Rudo, Meyers, Dauterman, and Langenbach, 5861

Langone, J. J. See Das and Langone, 2002 Lanks, K. W. See Wang, Shah, and Lanks, 3341 m, L. B. See Schiffman, Haley, Felton, Andrews, Kaslow, Lancaster, Kurm n, Brinton, Lannom, and Hoffmann, 3886

Lapis, E. See Tricot, Jayaram, Nichols, Penning-

ton, Lapis, Weber, and Hoffman, 4988 Larson, L. See Bern, Edery, Mills, Kohrman,

Mori, and Larson, 4165
Larson, S. M. See Colcher, Esteban, Carrasquillo, Sugarbaker, Reynolds, Bryant, Larson, and Schlom, 1185, 4218; Eger, Covell, Carrasquillo, Abrams, Foon, Reynolds, Schroff, Morgan, Larson, and Weinstein, 3328; Keenan, Weinstein, Carrasquillo, Bunn, Reynolds, Foon, Smarte, Ghosh, Fejka, Larson, and Mulshine, 6093; McManaway, Jagoda, Kasid, Eckelman, Francis, Larson, Gibson, Reba, and Lippman, 2945; Mulshine, Keenan, Carrasquillo, Walsh, Lin-noila, Holton, Harwell, Larson, Bunn, and Weinstein, 3572; Stevenson, Keenan, Woodhouse, Ottow, Miller, Steller, Foon, Abrams, Beman, Larson, and Sugarbaker, 6100

Larsson, B. See Gabel, Holstein, Larsson, Gille,

Ericson, Sacker, Som, and Fairchild, 5451 Larsson, O., and Johansson, B-M. Mevalonic Acid

Products as Mediators of Cell Proliferation in Simian Virus 40-transformed 3T3 Cells, 4825

Larsson, P. See Johansson, Anderström, von Schultz. and Larsson, 559

Laskin, D. L. See Gardner, Wasserman, and Las-Laskin, J. D. See Molloy and Laskin, 4674

Laster, W. R., Jr. See Griswold, Trader, Frei, Peters, Wolpert, and Laster, 2323 Laszlo, J. See Goldstein, Gockerman, Krishnan.

Ritchie, Tso, Hood, Ellinwood, and Laszlo, 6397 Latham, M. D. See Sullivan, Latham, and Ross,

Latt, S. A. See Kanda, Tsuchida, Hata, Kohl, Alt, Latt, and Utakoji, 3291

Lau, S. S., McMahon, J. B., McMenamin, M. G., Schuller, H. M., and Boyd, M. R. Metabolism of Arachidonic Acid in Human Lung Cancer Cell Lines, 3757

Lauer, S. J. See Merritt, Casper, Lauer, and Rea man, 1724

Laurent, G. See Sariban, Kohn, Zlotogorski, Lau-rent, D'Incalci, Day, Smith, Kornblith, and Er-

Laurent, J-C. See Gioanni, Samson, Zanghellini, Mazeau, Ettore, Demard, Chauvel, Duplay, Schneider, Laurent, and Lalanne, 4417

Lavelle, F. See Stevens, Hickman, Langdon, Chubb, Vickers, Stone, Baig, Goddard, Gibs Slack, Newton, Lunt, Fizames, and Lavelle, 5846

LaVoie, E. J. See Rice, Weyand, Geddie, DeFloria, and LaVoie, 6166

Law, L. W., Vieira, W. D., Kameyama, K., and Hearing, V. J. A Unique Tumor Rejection An-tigen from the S91 Murine Malignant Melanoma, 5841

Lawson, D. See Mehta, Lawson, Ward, Kimura, and Gee, 3115

Lawson, D. H. See Chawla, Lawson, Sarma, Nixon, and Travis, 1179 Lazar, W. See Iliakis and Lazar, 1853, 2224

Lazarus, P., and Panasci, L. C. Mechanism of Decrease of Protein Synthesis by Sodium Cyanate in Murine P388 Leukemia Cells, 5102 Lazzarino, G., Viola, A. R., Mulieri, L., Rotilio, G.,

and Mavelli, I. Prevention by Fructose-1,6-bis-phosphate of Cardiac Oxidative Damage Induced in Mice by Subchronic Doxorubicin Treatment, 6511

Le, S. See Singh, Le, Beauchamp, Townsend, and Thompson, 5000

Lea, O. A., Kvinnsland, S., and Thorsen, T. Progesterone-binding Cyst Protein in Human Breast Turnor Cytosol, 6189

Leav, I. See Ofner, Leav, Boucher, and Vena, 1701 Lebovitz, R. M. See Reynolds, DiPietro, Lebovitz, and Lieberman, 6384

Lechner, J. F. See Gerwin, Lechner, Reddel, Roberts, Robbins, Gabrielson, and Harris, 6180 Leclercq, G. See Devleeschouwer, Legros, Olea-

Serrano, Paridaens, and Leclercq, 5883 Ledda-Columbano, G. M. See Columbano, Ledda Columbano, Lee, Rajalakshmi, and Sarma, 5557

Lee, A. S. See Patierno, Tuscano, Kim, Landolph, and Lee, 6220

Lee, D. J. See Thompson, Lee, Cox, Lindgren, Collins, Neraas, Dennin, and Fefer, 4202 Lee, E. C. See Kao-Shan, Fine, Whang-Peng, Lee,

and Chabner, 6278

Lee, G. See Columbano, Ledda-Columbano, Lee, Rajalakshmi, and Sarma, 5557; Tatematsu, Lee, Hayes, and Farber, 4699

Lee, H. M. See Byers, Pimm, Pawluczyk, Lee, Scannon, and Baldwin, 5277; Spitler, del Rio, Khentigan, Wedel, Brophy, Miller, Harkonen, Rosendorf, Lee, Mischak, Kawahata, Stoudemire, Fradkin, Bautista, and Scannon, 1717

Lee, I. See Song, Lee, Hasegawa, Rhee, and Levitt,

Lee, J. S. See Eisbruch, Blick, Lee, Sacks, and Gutterman, 3603

Lee, J. S., Pathak, S., Hopwood, V., Tomasovic, B., Mullins, T. D., Baker, F. L., Spitzer, G., and Neidhart, J. A. Involvement of Chromosome 7 in Primary Lung Tumor and Nonmalignant Normal Lung Tissue, 6349

Lee, K-e., Erturk, E., Mayer, R., and Cockett, A. T. K. Efficacy of Antitumor Chemotherapy in C3H Mice Enhanced by the Antiangiogenesis Steroid, Cortisone Acetate, 5021

Lee, M-S. See Wang, Zukowski, Lee, and Imaida,

Lee, M. Y., Liu, C. C., Lottsfeldt, J. L., Judkins, S. A., and Howard, G. A. Production of Granu-locyte-stimulating and Bone Cell-modulating Activities from a Neutrophilia Hypercalcemiainducing Murine Mammary Cancer Cell Line, 4059

Lee, Y., Bullard, D. E., Wikstrand, C. J., Zalutsky, M. R., Muhlbaier, L. H., and Bigner, D. D. Comparison of Monoclonal Antibody Delivery to Intracranial Glioma Xenografts by Intravenous and Intracarotid Administration, 1941

Lee, Y. J., and Dewey, W. C. Effect of Cycloheximide or Puromycin on Induction of Thermotolerance by Heat in Chinese Hamster Ovary Cells: Dose Fractionation at 45.5°C, 5960

Leeds, C. See Clarke, Liao, Leeds, Soamboonsrup, and Neame, 4254

Lee-Wing, M. See Murphy, Lee-Wing, Goldenberg, and Shiu, 4160

Lefebvre, J. See Bonneterre, Peyrat, Beuscart, Lefebvre, and Demaille, 4724

Lefor, A. T. See Eisenthal, Lafreniere, Lefor, and Rosenberg, 2771

Leftwich, J. A. See Ely, Leftwich, Chenevix-Trench, Hall, and Westin, 4595

Leftwich, J. A., Carlson, P., Adelman, B., and Hall, R. E. HL-60-1E3, a Novel Phorbol Diesterresistant HL-60 Cell Line, 1319

Legros, N. See Devleeschouwer, Legros, Olea-Ser-

rano, Paridaens, and Leclercq, 5883

LeGrue, S. J., Simcik, W. J., and Frost, P. Immunogenic Variants of a Murine Fibrosarcoma Induced by Mutagenesis: Requirement of Viable Cells for Antigen-specific Cross-Protection, 4413

Lehman, H. F. See Brinton, Tashima, Lehman, Levine, Mallin, Savitz, Stolley, and Fraumeni, 1706

Lehmann, A. R., Jaspers, N. G. J., and Gatti, R. A. Workshop on Ataxia Telangiectasia, 4750, Meeting Report

Lehmann, J. M., Holzmann, B., Breitbart, E. W., Schmiegelow, P., Riethmüller, G., and Johnson, J. P. Discrimination between Benign and Malig nant Cells of Melanocytic Lineage by Two Novel
Antigens, a Glycoprotein with a Molecular Weight of 113,000 and a Protein with a Molecular Weight of 76,000, page 841

Lehr, B. M. See Graziano, Lehr, Merl, Ehrlich, Moore, Hallinan, Hubbell, Davey, Vournakis, and Poiesz, 2468

Lehrman, S. N. See Tavares, Roneker, Johnston, Lehrman, and de Noronha, 3190

Leiby, J. M., Snider, K. M., Kraut, E. H., Metz, E. N., Malspeis, L., and Grever, M. R. Phase II Trial of 9-β-D-Arabinofuranosyl-2-fluoroadenine 5'-Monophosphate in Non-Hodgkin's Lymphoma: Prospective Comparison of Response

with Deoxycytidine Kinase Activity, 2719 Leith, J. T., Michelson, S., Faulkner, L. E., and Bliven, S. F. Growth Properties of Artificial Heterogeneous Human Colon Tumors, 1045 Lejeune, F. J., and Ghanem, G. E. A Simple and

Accurate New Method for Cytostatics Dosimetry in Isolation Perfusion of the Limbs Based on Exchangeable Blood Volume Determination, 639

LeMaistre, C. F., Edwards, D. P., Krolick, K. A., and McGuire, W. L. An Immunotoxin Cytotoxic for Breast Cancer Cells in Vitro, 730

Lenoir, G. M. See Dellagi, Lipinski, Paulin, Portier, Lenoir, and Brouet, 1170; Lipinski, Bra-ham, Philip, Wiels, Philip, Goridis, Lenoir, and Tursz. 183

Leonard, J. E., Johnson, D. E., Felsen, R. B., Tanney, L. E., Royston, I., and Dillman, R. O. Establishment of a Human B-Cell Tumor in Athymic Mice, 2899

Leone, L. A. See Weltman, Pedroso, Johnson, Davignon, Fast, and Leone, 5552 Leong, L. See Carr, Rahbar, Doroshow, Blayney, Goldberg, Leong, and Asmeron, 4199

Leong, P-M. See Kaden, Call, Leong, Komives, and Thilly, 1993

LePage, D. See Griffin, Richardson, Houston,

LePage, Bogden, and Raso, 4266 Lepock, J. R. See Cheng, Hui, and Lepock, 1255 Leroux, M. E. See Klostergaard, Leroux, Ezell, and Kull, 2014

Leroyer, V., Werner, L., Shaughnessy, S., Goddard, G. J., and Orr, F. W. Chemiluminescence and Oxygen Radical Generation by Walker Carcinosarcoma Cells following Chemotactic Stimulation, 4771

Leskiw, M. See Inculet, Stein, Peacock, Leskiw, Maher, Gorschboth, and Norton, 4746

Lesley, J. F. See Sauvage, Mendelsohn, Lesley, and Trowbridge, 747

Leslie, D. S. See Haleem, Kurtzberg, Olsen, Rhinehardt-Clark, Leslie, Ray, Smith, Peters, Haynes, and Bast, 4608

Lester, C. M. See Arndt, Colvin, Balis, Lester, Johnson, and Poplack, 5932

Lestrud, S. O. See Brent, Lestrud, Smith, and Remack, 3384

Leuthauser, S. W. C. See Guernsey and Leuthauser, 3052

Levasseur, Y. See Ahmann, Crawford, Kreis, Levasseur, and the Aminoglutethimide Study Group, 4736

Levin, L. I., Gao, Y-T., Blot, W. J., Zheng, W., and Fraumeni, J. F., Jr. Decreased Risk of Lung Cancer in the Cotton Textile Industry of Shanghai, 5777

Levine, A. E. See Hoosein, Brattain, McKnight, Levine, and Brattain, 2950

Levine, A. E., and Crandall, C. A. Effects of N, N-Dimethylformamide and Retinoic Acid on Transforming Growth Factor-β Induced Mitogenesis in AKR-2B Mouse Embryo Fibroblasts,

Levine, A. S. See Akagi, Murai, Haddada, Levine, and Patch, 4086

Levine, R. S. See Brinton, Tashima, Lehman, Levine, Mallin, Savitz, Stolley, and Fraumeni, 1706; Yu, Henderson, Austin, Delzell, Cole, Grufferman, Levine, Morrison, and Stolley, 654 Levitt, S. H. See Rhee, Schuman, Song, and Levitt,

2571; Song, Lee, Hasegawa, Rhee, and Levitt,

Levy, D. D. See Boorstein, Levy, and Teebor, 4372 Levy, R. See Berinstein, Matthay, Papahadjopoulos, Levy, and Sikic, 5954
Lewensohn, R. See Hansson, Lewensohn, Ring-

borg, and Nilsson, 2631

Lewis, A. See Burchell, Gendler, Taylor-Papadimitriou, Girling, Lewis, Millis, and Lamport,

Lewis, A. D. See Robson, Lewis, Wolf, Hayes, Hall, Proctor, Harris, and Hickson, 6022

Lewis, G. D. See Sugarman, Lewis, Eessalu, Aggarwal, and Shepard, 780

Lewis, G. D., Aggarwal, B. B., Eessalu, T. E., Sugarman, B. J., and Shepard, H. M. Modula-tion of the Growth of Transformed Cells by Human Tumor Necrosis Factor-α and Interferon-γ, 5382

Lewis, J. L., Jr. See Mattes, Look, Furukawa, Pierce, Old, Lewis, and Lloyd, 6741 Leyland-Jones, B. See O'Dwyer, King, Hoth, and Leyland-Jones, 3911

Lhoste, E. F., and Longnecker, D. S. Effect of Bombesin and Caerulein on Early Stages of Carcinogenesis Induced by Azaserine in the Rat Pancreas, 3273

Li, G. C. See Issels, Bourier, Böning, Li, Mak, and Wilmanns, 2268; Mivechi and Li, 1538; Wallner, Banda, and Li, 1308; Wallner and Li, 493 Li, H. See Deng, Lu, Chen, Miao, Lu, Li, Cai, Xu,

E, and Liu, 3195

Li, J. C., and Kaminskas, E. Progressive Formation of DNA Lesions in Cultured Ehrlich Ascites Tumor Cells Treated with Hydroxyurea, 2755

Li, J-L., Okada, S., Hamazaki, S., Ebina, Y., and Midorikawa, O. Subacute Nephrotoxicity and Induction of Renal Cell Carcinoma in Mice Treated with Ferric Nitrilotriacetate, 1867

J-s. See Nutter, Grill, Li, Tan, and Cheng,

Li, L. See Chen, Li, and Mioh, 4995 Li, L. H., DeKoning, T. F., and Wallace, T. L. Relationship between Modulation of Natural Killer Cell Activity and Antitumor Activity of Bropirimine When Used in Combination with Various Types of Chemotherapeutic Drugs,

Li, S-Y. See Ho, Chiang, Li, Yuan, and Ng, 3220 Li, Y-Q. See Preisler, Sato, Li, Stein, and Stein, 3747

Liao, S-K. See Clarke, Liao, Leeds, Soamboons-rup, and Neame, 4254; Hamby, Liao, Kanamaru, and Ferrone, 5284

Liao, S-K., Smith, J. W., Kwong, P. C., Natali, P. G., Kusama, M., Hamby, C. V., and Ferrone, S. Cross-Reactivity of Murine Anti-Human High Molecular Weight-Melanoma Associated Antien Monoclonal Antibodies with Guinea Pig Melanoma Cells, 4835

Liberatore, F. A. See Brown, Comeau, Jones, Liberatore, Neacy, Sands, and Gallagher, 1149

Lichtenstein, A. Stimulation of the Respiratory Burst of Murine Peritoneal Inflammatory Neu trophils by Conjugation with Tumor Cells, 2211 Lichtner, R. B., Goka, T. J., Butcher, R. W., and

Nicolson, G. L. Direct Effects of the Pyrimido-Pyrimidine Derivative RA 233 (Rapenton) on Rat 13762NF Mammary Tumor Cell Clones in Vitro, 1870

Lieberman, M. W. See Reynolds, DiPietro, Lebo-

vitz, and Lieberman, 6384
Liehr, J. G., Hall, E. R., Avitts, T. A., Randerath, E., and Randerath, K. Localization of Estrogeninduced DNA Adducts and Cytochrome P-450 Activity at the Site of Renal Carcinogenesis in

the Hamster Kidney, 2156 Liehr, J. G., Purdy, R. H., Baran, J. S., Nutting, E. F., Colton, F., Randerath, E., and Randerath, K. Correlation of Aromatic Hydroxylation of 11βsubstituted Estrogens with Morphological Transformation in Vitro but not with in Vivo Tumor Induction by These Hormones, 2583 Liem, A. See Wiseman, Miller, Miller, and Liem,

Lien, E. J. See Weckbecker, Weckbecker, Lien,

and Cory, 975 Liguori, G. See Russo, Liguori, Heston, Huryk, Yang, Fair, Whitmore, and Herr, 5967

Lijinsky, W., Kovatch, R. M., and Riggs, C. W. Carcinogenesis by Nitrosodialkylamines and Azoxyalkanes Given by Gavage to Rats and Hamsters, 3968

Liliemark, J. O. See Plunkett, Liliemark, Adams, Nowak, Estey, Kantarjian, and Keating, 3005 Lilia, H. S. See Dunnick, Eustis, and Lilia, 5189 Lillehaug, J. See Billings, Shuin, Lillehaug, Miura, Roy-Burman, and Landolph, 3643

Limas, C. See Bear, Clayman, Elbers, Limas, Wang, Stone, Gebhard, Prigge, and Palmer, 3856

Lin, J. T., Cashmore, A. R., Baker, M., Dreyer, R. N., Ernstoff, M., Marsh, J. C., Bertino, J. R., Whitfield, L. R., Delap, R., and Grillo-Lopez, A. Phase I Studies with Trimetrexate: Clinical Pharmacology, Analytical Methodology, and Pharmacokinetics, 609

Lin, L. S. See Creasey, Doyle, Reynolds, Jung, Lin, and Vitt, 145

Lin, T-S., and Prusoff, W. H. Enhancement of the Anticancer Activity of Bis(2-chloroethyl)ni-trosourea in Mice by Coadministration of 2'-Deoxyuridine, 2'-Deoxycytidine, or Thymidine,

Lincoln, D. W. See Gierthy, Lincoln, Gillespie, Seeger, Martinez, Dickerman, and Kumar, 6198 Lincoln, R. See Liu, Ascensao, Lutton, and Lincoln. 6576

Lindamood, C., III See McCarthy, Lindamood, and Hill, 5014

Lindgren, C. G. See Thompson, Lee, Cox, Lindgren, Collins, Neraas, Dennin, and Fefer, 4202 Linet, M. S., Harlow, S. D., and McLaughlin, J. K.

A Case-Control Study of Multiple Myeloma in Whites: Chronic Antigenic Stimulation, Occupation, and Drug Use, 2978 Ling, V. See Cillo, Dick, Ling, and Hill, 2604

Link, M. P. See Smith, Morgan, Galili, Amylon, Link, Hecht, Sklar, and Glader, 1652

Linnemans, W. A. M. See Wiegant, van Bergen en Henegouwen, van Dongen, and Linnemans,

Linnoila, R. I. See Mulshine, Keenan, Carrasquillo, Walsh, Linnoila, Holton, Harwell, Larson, Bunn, and Weinstein, 3572

Liotta, L. A. See Garbisa, Pozzatti, Muschel, Saffiotti, Ballin, Goldfarb, Khoury, and Liotta, 1523; Wewer, Taraboletti, Sobel, Albrechtsen, and Liotta, 5691

Lipford, E. See Raffeld, Wright, Lipford, Cossman, Longo, Bakhshi, and Korsmeyer, 2537

Lipinski, M. See Dellagi, Lipinski, Paulin, Portier, Lenoir, and Brouet, 1170

Lipinski, M., Braham, K., Philip, I., Wiels, J., Philip, T., Goridis, C., Lenoir, G. M., and Tursz, T. Neuroectoderm-associated Antigens on Ewing's Sarcoma Cell Lines, 183

Lipkin, M. See Augenlicht, Wahrman, Halsey,

Anderson, Taylor, and Lipkin, 6016 Lippman, M. E. See Bronzert, Silverman, and Lippman, 1234; Kasid, Knabbe, and Lippman, 5733; McManaway, Jagoda, Kasid, Eckelman, Francis, Larson, Gibson, Reba, and Lippman, 2945; Swain, Sorace, Bagley, Danforth, Bader, Wesley, Steinberg, and Lippman, 3889

Lipsky, R. H., and Silverman, S. J. Effects of Mycophenolic Acid on Detection of Glial Filaments in Human and Rat Astrocytoma Cultures.

Lipton, R. B. See Wiernik, Schwartz, Strauman,

Dutcher, Lipton, and Paietta, 2486
Liteplo, R. G., and Kerbel, R. S. Reduced Levels
of DNA 5-Methylcytosine in Metastatic Variants of the Human Melanoma Cell Line MeWo, 2264

Litterst, C. C. See McLemore, Liu, Blacker, Gregg, Alley, Abbott, Shoemaker, Bohlman, Litterst, Hubbard, Brennan, McMahon, Fine, Eggleston, Mayo, and Boyd, 5132

Litterst, C. L. See Reed, Litterst, Thill, Yuspa, and Poirier 718

Little, J. B. See Nagasawa, Kraemer, Shiloh, and Little, 398

Little, J. B., Nove, J., Dahlberg, W. K., Troilo, P., Nichols, W. W., and Strong, L. C. Normal Cy-totoxic Response of Skin Fibroblasts from Patients with Li-Fraumeni Familial Cancer Syndrome to DNA-damaging Agents in Vitro, 4229 Little, S. A., and Mirkes, P. E. DNA Cross-Linking

and Single-Strand Breaks Induced by Teratogenic Concentrations of 4-Hydroperoxycyclophosphamide and Phosphoramide Mustard in Postimplantation Rat Embryos, 5421

Littlefield, B. A. See Amin, Karlan, and Littlefield.

Liu, C. C. See Lee, Liu, Lottsfeldt, Judkins, and Howard, 4059

Liu, L. F. See Nelson, Cho, Hsiang, Liu, and Coffey, 3246

Liu, M. C. See McLemore, Liu, Blacker, Gregg, Alley, Abbott, Shoemaker, Bohlman, Litterst, Hubbard, Brennan, McMahon, Fine, Eggleston, Mayo, and Boyd, 5132

Liu, P. See Deng, Lu, Chen, Miao, Lu, Li, Cai, Xu, E, and Liu, 3195

Liu, S-J., Ascensao, J. L., Lutton, J. D., and Lin-coln, R. Modulation of Human Hemopoietic Progenitor Cell Growth in Vitro by Recombinant Human β-Interferon, 6576

Liu, Y-S. V. See Ranken, White, Gottfried, Yonkovich, Blazek, Moss, Fee, and Liu, 5684 Lloyd, K. O. See Mattes, Look, Furukawa, Pierce,

Old, Lewis, and Lloyd, 6741; Mattes, Real, Furukawa, Old, and Lloyd, 6614 Lloyd, R. V., Coleman, K., Fields, K., and Nath, V.

Analysis of Prolactin and Growth Hormone Production in Hyperplastic and Neoplastic Rat Pituitary Tissues by the Hemolytic Plaque Assay, 1087

LoCastro, L. See Kwon, Maddison, LoCastro, and Borch, 1505

Lockney, M. W. See Moskal, Lockney, Marvel,

Lockney, M. W. See Frontani, Lockney, Trosko, and Sweeley, 787
LoGerfo, P. See Guillem, O'Brian, Fitzer, Forde,
LoGerfo, Treat, and Weinstein, 2036
Lohman, P. H. M. See Fichtinger-Schepman, van

Oosterom, Lohman, and Berends, 3000

Löhn, S. See Lönn and Löhn, 26

Loik, F. See Hall, Inskip, Loik, Tomatis, Day, O'Conor, Bosch, Muir, Parkin, Muñoz, Greenwood, Whittle, Ryder, Oldfield, N'jie, Smith, and Coursaget, 5782

Lokiec, F. See Khayat, Lokiec, Bizzari, Weil, Meeus, Sellami, Rouesse, Banzet, and Jacquil-

lat, 6782

Lokos, G. See Fanucchi, Walsh, Fleisher, Lokos, Williams, Cassidy, Vidal, Chou, Niedzwiecki, and Young, 3303

Longnecker, D. S. See Lhoste and Longnecker, 3273

Longo, D. L. See Beckner, Maluish, and Longo, 5504: DeVita, Hubbard, and Longo, 5810; Raffeld, Wright, Lipford, Cossman, Longo, Bakhshi, and Korsmeyer, 2537 Lönn, U., and Löhn, S. Prevention of Dacarbazine

Damage of Human Neoplastic Cell DNA by Aphidicolin, 26

nroth, C. See Ternell, Moldawer, Lönnroth, Gelin, and Lundholm, 5825

Look, K. See Mattes, Look, Furukawa, Pierce, Old, Lewis, and Lloyd, 6741

Lopez, D. M. See Paul and Lopez, 1105

Lopez, H. See Harkonen, Stoudemire, Mischak, Spitler, Lopez, and Scannon, 1377 Lopez-Berestein, G. See Perez-Soler, Khokhar, and

Lopez-Berestein, 6462

López-Soriano, F. J. See Rivera, López-Soriano, Azcón-Bieto, and Argilés, 5644 Lorenzo, F. See Perrot-Applanat, Groyer-Picard,

Lorenzo, Jolivet, Hai, Pallud, Spyratos, and Milgrom, 2652

Loretz, L. J. See Christian, Loretz, Oberley, and Reznikoff, 6066

Los, G. See Sijens, Bovée, Seijken Koole, Los, and van Rijssel, 6467

Lotan, D. See Lotan, Lotan, and Deutsch, 3152; Prashad, Lotan, and Lotan, 2417

Lotan, R. See Jetten, Anderson, Deas, Kagechika, Lotan, Rearick, and Shudo, 3523; Prashad, Lotan, and Lotan, 2417

Lotan, R., Lotan, D., and Deutsch, V. Growth Inhibition of Murine Melanoma Cells by Anti-bodies to a Cell Surface Glycoprotein Implicated in Retinoic Acid Action, 3152

Lottsfeldt, J. L. See Lee, Liu, Lottsfeldt, Judkins, and Howard, 4059

Lotze, M. T. See Roberts, Lotze, and Rosenberg,

Lotze, M. T., Custer, M. C., Sharrow, S. O., Rubin, L. A., Nelson, D. L., and Rosenberg, S. A. In Vivo Administration of Purified Human Interleukin-2 to Patients with Cancer: Development of Interleukin-2 Receptor Positive Cells and Circulating Soluble Interleukin-2 Receptors following Interleukin-2 Administration, 2188

Louie, K. G. See Behrens, Hamilton, Masuda, Grotzinger, Whang-Peng, Louie, Knutsen, McKoy, Young, and Ozols, 414
Lu, G. See Deng, Lu, Chen, Miao, Lu, Li, Cai, Xu, E, and Liu, 3195

Lu, L., Hangoc, G., Oliff, A., Chen, L. T., Shen, R. N., and Broxmeyer, H. E. Protective Influence of Lactoferrin on Mice Infected with the Polycythemia-inducing Strain of Friend Virus Complex, 4184

Lu, W. C. See Auerbach, Lu, Pardon, Gumkowski, Kaminska, and Kaminski, 1492

Lu, Y. See Deng, Lu, Chen, Miao, Lu, Li, Cai, Xu, E, and Liu, 3195

Lubeck, M. D. See Thurin, Thurin, Kimoto, Herlyn, Lubeck, Elder, Smereczynska, Karlsson, Clark, Steplewski, and Koprowski, 1229

Lucas, W. E. See Zimm, Cleary, Lucas, Weiss, Markman, Andrews, Schiefer, Kim, Horton, and Howell, 1712

Lucier, G. W. See Camper., Sloop, Maronpot, and Lucier, 2328; Lundgran, Andries, Thompson, and Lucier, 3662

Luk, G. D. See Casero, Go, Theiss, Smith, Baylin, and Luk, 3964

Lukies, R. E. See Whitehead, Jones, Gabriel, and Lukies, 2683

Luks, E. See Balis, Patel, Luks, Doherty, Holcenberg, Tan, Reaman, Belasco, Ettinger, Zimm, and Poplack, 4973; Tan, Hancock, Steinherz, Bacha, Steinherz, Luks, Winick, Meyers, Mondora, Dantis, Niedzwiecki, and Stevens, 2990

Lundberg, B. Preparation of Drug-Low Density Lipoprotein Complexes for Delivery of Antitumoral Drugs via the Low Density Lipoprotein Pathway, 4105

Lundberg, S., Carstensen, J., and Rundquist, I.

DNA Flow Cytometry and Histopathological Grading of Paraffin-embedded Prostate Biopsy Specimens in a Survival Study, 1973

specimens in a survival subj. 19/30, and Lucier, G. W. α-Naphthoflavone Metabolized by 2,3,7,8-Tetrachlorodibenzo(p)dioxininduced Rat Liver Microsomes: A Potent Classical State of the Company of the C togen in Chinese Hamster Ovary Cells, 3662 Lundholm, K. G. See Ternell, Moldawer, Lönn-

roth, Gelin, and Lundholm, 5825 Lundstam, S. See Tveit, Weiss, Lundstam, and

Hultborn, 4709

Lunt, E. See Stevens, Hickman, Langdon, Chubb, Vickers, Stone, Baig, Goddard, Gibson, Slack, Newton, Lunt, Fizames, and Lavelle, 5846

Luamani, Y. See Barrett-Lee, Travers, McClelland, Luqmani, and Coombes, 6653

Lurie, K. A. See Hamburger, Lurie, and Condon, 5612

Juster, M. I., Germolec, D. R., Burleson, G. R., Jameson, C. W., Ackermann, M. F., Lamm, K. R., and Hayes, H. T. Selective Immunosuppression in Mice of Natural Killer Cell Activity by Ochratoxin A, 2259

Luts, A. See Stewart, Luts, and Begg, 1016 Lutton, J. D. See Liu, Ascensao, Lutton, and Lin-

coln. 6576 Lutz, M. D. See Babu, Lutz, Miles, Farah, Weiss, and Van Dyke, 6800

Lyall, R. M., Hwang, J., Cardarelli, C., FitzGerald, D., Akiyama, S-I., Gottesman, M. M., and Pas-tan, I. Isolation of Human KB Cell Lines Re-

sistant to Epidermal Growth Factor-Pseudomonas Exotoxin Conjugates, 2961 Lyons, R. M. See Keski-Oja, Lyons, and Moses,

Lysik, R. M. See Zucker, Wieman, Lysik, Wilkie, Ramamurthy, Golub, and Lane, 1608

M

Maatta, E. A. See Perchellet, Abney, Thomas, Perchellet, and Maatta, 6302

Maccubbin, A. See Dunn, Black, and Maccubbin,

Maccubbin, D. See Hori, Ehrke, Mace, Maccubbin, Doyle, Otsuka, and Mihich, 2793
Mace, K. See Hori, Ehrke, Mace, Maccubbin, Doyle, Otsuka, and Mihich, 2793; Hori, Ehrke, Mace, and Mihich, 5868

Mach, J-P. See Sutherland, Buchegger, Schreyer,

Vacca, and Mach, 1627 Machleidt, W. See Wieczorek, Sitaramam, Machleidt, Rhyner, Perruchoud, and Block, 6407

Mackay, A. M., Tracy, R. P., and Craighead, J. E. Intermediate Filament Proteins in Asbestos-induced Mesotheliomas of the Rat, 5461 Mackay, I. R. See Werkmeister, Triglia, Mackay,

Dowling, Varigos, Morstyn, and Burns, 225 Mackenzie, L. See Cowled, Mackenzie, and Forbes, 971

MacKenzie, S. A. See Kaufmann, Rahija, Mac-Kenzie, and Kaufman, 3771 Maclure, M. See Bryant, Skipper, Tannenbaum,

and Maclure, 602 Madara, T. See Gilmour, Verma, Madara, and

O'Brien, 1221 Maddison, K. See Kwon, Maddison, LoCastro, and Borch, 1505

Madiyalakan, R. See Niedbala, Madiyalakan, Matta, Crickard, Sharma, and Bernacki, 4634 Maeda, H. See Oda and Maeda, 3206; Yamasaki, Konno, Miyauchi, and Maeda, 852

Maeda, H., Matsumura, Y., and Molla, A. Antitumor Activity of Some Bacterial Proteases: Eradication of Solid Tumors in Mice by Intratumor Injection, 563

Maeda, S. See Gohji, Maeda, Sugiyama, and Kam idono, 4941 Maekawa, T. See Oguma, Yoshida, Uchino, and Magae, J., Hosokawa, T., Matsuda, Y., Hotta, M., Hayasaki, J-i., Nagai, K., Ando, K., Yamasaki, M., and Tamura, G. Suppression of Hypertri-glyceridemia of Ehrlich Carcinoma-bearing Mice by an Antibiotic, Ascofuranone, 96

Magagnotti, C. See Airoldi, Bonfanti, Magagnotti, and Fanelli, 3697

Maguire, R. T. See Kessler, Heilman, Cossman, Maguire, and Thorgeirsson, 527

Maekawa, 2196, 3599

er, M. See Inculet, Stein, Peacock, Leskiw, Maher, Gorschboth, and Norton, 4746

Maher, V. M. See Hurlin, Fry, Maher, and Mc-Cormick, 5752

Mak, J. J. See Issels, Bourier, Böning, Li, Mak, and Wilmanns, 2268

Makino, S. See Mori, Kurata, Takeuchi, Toyama, Makino, and Fukushima, 3492

Makley, J. See Heiner, Miraldi, Kallick, Makley,

Neely, Smith-Mensah, and Cheung, 5377

Makowka, L. See Francavilla, Ove, Polimen

Coetzee, Makowka, Rose, Van Thiel, and Starzl, 5600

Malaisse, W. J. See Sener, Giroix, Hellerström, and Malaisse, 5905

Malis, C. D. See Ara, Aprille, Malis, Kane, Cincotta, Foley, Bonventre, and Oseroff, 6580 Malker, B. K. See Malker, McLaughlin, Silver-

man, Ericsson, Stone, Weiner, Malker, and Blot, 6763; McLaughlin, Malker, Malker, Stone, Ericsson, Blot, Weiner, and Fraumeni,

Malker, H. S. R. See McLaughlin, Malker, Malker, Stone, Ericsson, Blot, Weiner, and

Fraumeni 287

Malker, H. S. R., McLaughlin, J. K., Silverman, D. T., Ericsson, J. L. E., Stone, B. J., Weiner, J. A., Malker, B. K., and Blot, W. J. Occupational Risks for Bladder Cancer among Men in Sweden. 6763

Mallin, K. See Brinton, Tashima, Lehman, Levine, Mallin, Savitz, Stolley, and Fraumeni, 1706
Malspeis, L. See Kemmenoe and Malspeis, 1135;

Leiby, Snider, Kraut, Metz, Malspeis, and Grever, 2719

Maluish, A. E. See Beckner, Maluish, and Longo, 5504

Man, S. See Frost, Kerbel, Hunt, Man, and Pathak. 2690

Manabe, S., Yanagisawa, H., Ishikawa, S., Kitagawa, Y., Kanai, Y., and Wada, O. Accumulation of 2-Amino-6-methyldipyrido[1,2-a:3',2'-d]imadazole and 2-Aminodipyrido[1,2-a:3',2'-d]imidazole, Carcinogenic Glutamic Acid Pyrolysis Products, in Plasma of Patients with Uremia, 6150

Manchester, D. K., Gordon, S. K., Golas, C. L., Roberts, E. A., and Okey, A. B. Ah Receptor in Human Placenta: Stabilization by Molybdate and Characterization of Binding of 2,3,7,8-Tetrachlorodibenzo-p-dioxin, 3-Methylcholan-threne, and Benzo(a)pyrene, 4861

Mancianti, M. See Herlyn, Rodeck, Mancianti, Cardillo, Lang, Ross, Jambrosic, and Ko-prowski, 3057 Manda, T., Shimomura, K., Mukumoto, S., Kobay-

ashi, K., Mizota, T., Hirai, O., Matsumoto, S., Oku, T., Nishigaki, F., Mori, J., and Kikuchi, H. Recombinant Human Tumor Necrosis Factora: Evidence of an Indirect Mode of Antitumor Activity, 3707

Mandel, H. G., Manson, M. M., Judah, D. J., Simpson, J. L., Green, J. A., Forrester, L. M., Wolf, C. R., and Neal, G. E. Metabolic Basis for the Protective Effect of the Antioxidant Ethoxyquin on Aflatoxin B, Hepatocarcinogenesis in the Rat, 5218

Mandel, R. See Wade, Mandel, and Ryser, 6606 Manenti, G. See Dragani, Manenti, Della Porta, and Weinstein, 795

Mangino, M. M. See Rao, Mangino, Usman, Sub-

barao, Scarpelli, Reddy, and Reddy, 1657
Mangino, M. M., Hollenberg, P. F., and Scarpelli,
D. G. Species Specificity in the Metabolism of N-Nitrosobis(2-oxopropyl)amine and N-Nitroso(2-hydroxypropyl)(2-oxopropyl)amine to Mutagens by Isolated Rat and Hamster HepaManias, D. A. See Ostrow, Manias, Clark, Okagaki, Twiggs, and Faras, 649

Manly, K. F., Petrelli, N., Anderson, G. R., Emrich, L. J., Herrera, L., and Mittelman, A. Expression of an Unusual Isozvme of Lactate Dehydrogenase in the Serum of Cancer Patients and Comparison with Carcinoembryonic Antigen, 6156

nn, K. See Rodan, Imai, Thiede, Wesolowski, Thompson, Bar-Shavit, Shull, Mann, and Ro-

dan. 4961

Manr fanni, A., Badger, B., Wright, C., Ahmed, S. R., and Demers, L. M. Effects of Progestins on Growth of Experimental Breast Cancer in Culture: Interaction with Esfradiol and Prolactin and Involvement of the Polyamine Pathway,

Manske, J. M. See Weil-Hillman, Uckun, Manske, and Vallera, 579 Manson, M. M. See Mandel, Manson, Judah,

Simpson, Green, Forrester, Wolf, and Neal, 5218

Manthey, C. L. See Kohn, Landkamer, Manthey,

Ramsay, and Sladek, 3180

Marchetti, E., Querzoli, P., Moncharmont, B., Parikh, I., Bagni, A., Marzola, A., Fabris, G., and Nenci, I. Immunocytochemical Demonstration of Estrogen Receptors by Monoclonal Antibodies in Human Breast Cancer: Correlation with Estrogen Receptor Assay by Dextran-coated Charcoal Method, 2508

Marchok, A. C., and Martin, D. H. Sequential Appearance of Anchorage Independence, Uncontrolled Nuclear Division, and Tumorigenic ity in 7,12-Dimethylbenz(a)anthracene-exposed

Rat Tracheal Epithelial Cells, 3446 Marcus, S. L., Dutcher, J. P., Paietta, E., Ciobanu, N., Strauman, J., Wiernik, P. H., Hutner, S. H., Frank, O., and Baker, H. Severe Hypovitaminosis C Occurring as the Result of Adoptive Immunotherapy with High-Dose Interleukin 2 and Lymphokine-activated Killer Cells, 4208

Marder, R. J. See Epstein, Marder, Winter, Stath opoulos, Chen, Parker, and Taylor, 830 Mariani, L. See Catapano, Broggini, Erba, Ponti, Mariani, Citti, and D'Incalci, 4884

Mariani-Costantini, R. See Ohuchi, Horan Hand, Merlo, Fujita, Mariani-Costantini, Thor, Nose, Callahan, and Schlom, 1413 Mark, C. See Benedict, Srivatsan, Mark, Banerjee,

Sparkes, and Murphree, 4189

Mark, G. E. See Graziano, Cowan, Carney, Bryke, Mitter, Johnson, Mark, Planas, Catino, Comis, and Poiesz, 2148

Mark, J. See Nister, Wedell, Betsholtz, Bywater, Pettersson, Westermark, and Mark, 4953

Markman, M. See Zimm, Cleary, Lucas, Weiss, Markman, Andrews, Schiefer, Kim, Horton, and Howell, 1712

Markovits, J., Pommier, Y., Kerrigan, D., Covey, J. M., Tilchen, E. J., and Kohn, K. W. Topoisom-erase II-mediated DNA Breaks and Cytotoxicity in Relation to Cell Proliferation and the Cell Cycle in NIH 3T3 Fibroblasts and L1210 Leukemia Cells, 2050

Marks, F. See Fischer, Fürstenberger, Marks, and Slaga, 3174

Marks, P. A., Sheffery, M., and Rifkind, R. A. Induction of Transformed Cells to Terminal Differentiation and the Modulation of Gene Expression, 659, Perspectives in Cancer Re-

Marletta, M. A. See Stuehr and Marletta, 5590 Marnett, L. J. See Menter, Steinert, Sloane, Gundlach, O'Gara, Marnett, Diglio, Walz, Taylor, and Honn, 6751

Maronpot, R. R. See Belinsky, Walker, Maronpot, Swenberg, and Anderson, 6057; Campen, Sloop, Maronpot, and Lucier, 2328; Hsieh, Hsiao, Peraino, Maronpot, and Weinstein, 3421; Stowers, Glover, Reynolds, Boone, Maronpot, and Anderson, 3212

Marra, P. See Reddy, Sugie, Maruyama, El-Bayoumy, and Marra, 5901

Marrero, O. See Bunin, Kramer, Marrero, and Meadows, 2972

Marsden, E. See Evarts, Nagy, Marsden, and Thorgeirsson, 5469

Marsh, J. C. See Lin, Cashmore, Baker, Dreyer,

Ernstoff, Marsh, Bertino, Whitfield, Delap, and Grillo-Lopez, 609

Marsh, W., and Center, M. S. Adriamycin Resistance in HL60 Cells and Accompanying Modification of a Surface Membrane Protein Contained in Drug-sensitive Cells, 5080

Martel, N. See Yamasaki, Hollstein, Mesnil, Martel, and Aguelon, 5658

Martin, D. H. See Marchok and Martin, 3446 Martin, D. S. See Stolfi, Sawyer, and Martin, 16 Martin, G. M. See Kavanagh, Martin, El-Fouly, Trosko, Chang, and Rabinovitch, 6046
Martin, G. R. See Albini, Iwamoto, Kleinman,

Martin, Aaronson, Kozlowski, and McEwan, 3239; Bresalier, Hujanen, Raper, Roll, Itzkowitz, Martin, and Kim, 1398

Martinez, H. L. See Gierthy, Lincoln, Gillespie, Seeger, Martinez, Dickerman, and Kumar, 6198 n, L. J. See Bakic, Chan, Freireich, Marton, and Zwelling, 6437; Hunter, Deen, and Marton, 5270

Marushige, K. See Marushige, Raju, Marushige, and Koestner, 4109

Marushige, Y., Raju, N. R., Marushige, K., and Koestner, A. Modulation of Growth and of Morphological Characteristics in Glioma Cells by Nerve Growth Factor and Glia Maturation Fac-

Maruyama, H. See Reddy, Maruyama, and Kelloff, 5340; Reddy, Sugie, Maruyama, El-Bayoumy, and Marra, 5901; Reddy, Wang, and Maruyama, 1226

Maruyama, H. See Shiratori, Soma, Maruyama, Sato, Takano, and Sato, 6806

Marvel, C. C. See Moskal, Lockney, Marvel, Trosko, and Sweeley, 787

Marzola, A. See Marchetti, Querzoli, Moncharmont, Parikh, Bagni, Marzola, Fabris, and Nenci 2508

Maseki, N. See Kaneko, Kanda, Maseki, Sakurai, Tsuchida, Takeda, Okabe, and Sakurai, 311

Maseki, N., Kaneko, Y., Sakurai, M., Kurihara, M., Sampi, K., Shimamura, K., and Takayama, S. Chromosome Abnormalities in Malignant Lymphoma in Patients from Saitama, 6767 Mass, M. J. See Beeman, Siegfried, and Mass,

Mastrangelo, M. J. See Berd and Mastrangelo, 2727, 3317

Mastro, A. M. See Hurley and Mastro, 3729 Masuda, H. See Behrens, Hamilton, Masuda, Grotzinger, Whang-Peng, Louie, Knutsen, McKoy, Young, and Ozols, 414 Masui, T. See Baba, Klein-Szanto, Trono, Obara,

Yoakum, Masui, and Harris, 573 Masui, T., Asamoto, M., Hirose, M., Fukushima, S., and Ito, N. Regression of Simple Hyperplasia and Papillomas and Persistence of Basal Cell Hyperplasia in the Forestomach of F344 Rats

Treated with Butylated Hydroxyanisole, 5171 Masumi, S. See Yasutake, Kuratomi, Ono, Masumi, and Kuwano, 4894

Mather, S. J. See Ward, Mather, Hawkins, Crowther, Shepherd, Granowska, Britton, and Slevin, 4719

Matsuda, Y. See Magae, Hosokawa, Matsuda, Hotta, Hayasaki, Nagai, Ando, Yamasaki, and

Matsui, M. S., and Jeffrey, A. M. Fatty Acid Modification of C3H 10T½ Fibroblast Cells: Changes in Benzo(a)pyrene Metabolism and Phorbol Ester Binding, 2385 Matsui, S-i. See Matuo, Nishi, Matsui, Sandberg,

Isaacs, and Wada, 188

Matsumoto, K. See Hiraoka, Nakamura, Nishi-zawa, Uchida, Noguchi, Matsumoto, and Sato, 6560; Noguchi, Nishizawa, Nakamura, Uchida, amaguchi, Sato, Kitamura, and Matsumoto, 263; Omukai, Nakamura, Hiraoka, Nishizawa, Uchida, Noguchi, Sato, and Matsumoto, 4329; Terakawa, Hayashida, Shimizu, Ikegami, Wakimoto, Aono, Tanizawa, Matsumoto, and Nish-

Matsumoto, S. See Manda, Shimomura, Mukumoto, Kobayashi, Mizota, Hirai, Matsumoto, Oku, Nishigaki, Mori, and Kikuchi, 3707 Matsumura, T. See Sugimoto, Sawada, Matsu-

mura, Horii, Kemshead, Suzuki, Okada, Ta-

gava, and Hino, 5433

Matsumura, T., Sugimoto, T., Sawada, T., Amagai, T., Negoro, S., and Kemshead, J. T. Cell Surface Membrane Antigen Present on Neuroblastoma Cells but Not Fetal Neuroblasts Recognized by a Monoclonal Antibody (KP-NAC8), 2924 Matsumura, Y. See Maeda, Matsumura, and

Molla, 563

Matsunaga, A., Kuroki, M., Higuchi, H., Arakawa, F., Takakura, K., Okamoto, N., and Matsuoka, Y. Antigenic Heterogeneity of Carcinoembryonic Antigen in the Circulation Defined by Monoclonal Antibodies against the Carbohy-drate Moiety of Carcinoembryonic Antigen and Closely Related Antigens, 56

Matsuoka, H., Sugimachi, K., Ueo, H., Kuwano, H., Nakano, S., and Nakayama, M. Sex Hor-mone Response of a Newly Established Squamous Cell Line Derived from Clinical Esopha-

geal Carcinoma, 4134

Matsuoka, T., Takeichi, N., and Kobayashi, H. Age-related Changes of Natural Antitumor Re-sistance in Spontaneously Hypertensive Rats with T-Cell Depression, 3410

Matsuoka, Y. See Matsunaga, Kuroki, Higuchi, Arakawa, Takakura, Okamoto, and Matsuoka, 56; Suzuki, Kondo, Tominaga, Kuroki, and Matsuoka, 4782; Yamashita, Totani, Kuroki, Matsuoka, Ueda, and Kobata, 3451

Matsuoka, Y., Nakashima, T., Endo, K., Yoshida, T., Kunimatsu, M., Sakahara, H., Koizumi, M., Nakagawa, T., Yamaguchi, N., and Torizuka, K. Recognition of Ovarian Cancer Antigen CA125 by Murine Monoclonal Antibody Produced by

Immunization of Lung Cancer Cells, 6335
Matsushima, K. See Onozaki, Tamatani, Hashimoto, and Matsushima, 2397

Matsuzaki, H., Haruta, Y., Fukukawa, T., Barcos, M. P., and Seon, B. K. Unique Epitopes of Common Acute Lymphoblastic Leukemia Antigen Detected by New Monoclonal Antibodies,

Matsuzaki, H., and Seon, B. K. Molecular Nature of a Cell Membrane Antigen Specific for Human T-Cell Acute Lymphoblastic Leukemia, 4283 Matta, K. See Niedbala, Madiyalakan, Matta,

Crickard, Sherma, and Bernacki, 4634 Mattern, M. R., Moug, S-M., Bartus, H. F., Mir-abelli, C. K., Crooke, S. T., and Johnson, R. K. Relationship between the Intracellular Effects of Camptothecin and the Inhibition of DNA Topoisomerase I in Cultured L1210 Cells, 1793

Mattes, L. See Basu, Murthy, Rodeck, Herlyn, Mattes, and Das, 2531

Mattes, M. J., Look, K., Furukawa, K., Pierce, V. , Old, L. J., Lewis, J. L., Jr., and Lloyd, K. O. Mouse Monoclonal Antibodies to Human Epithelial Differentiation Antigens Expressed on the Surface of Ovarian Carcinoma Ascites Cells, 6741

Mattes, M. J., Real, F. X., Furukawa, K., Old, L. J., and Lloyd, K. O. Class 1 (Unique) Tumor Antigens of Human Melanoma: Partial Purification and Characterization of the FD Antigen and Analysis of a Mouse Polyclonal Antiserum, 6614

Matthay, K. K. See Berinstein, Matthay, Papahadjopoulos, Levy, and Sikic, 5954

Matthews, C. See Seshadri, Kutlaca, Trainor, Mat-

thews, and Morley, 407

Mattis, J. A. See Borlinghaus, Fitzpatrick, Hein-del, Mattis, Mease, Schray, Shealy, Walton, and Woo, 4071; Hnatowich, Gionet, Rusckowski, Wilson, Hunter, Griffin, and Doherty, 6111
Matuo, Y., Nishi, N., Matsui, S-i., Sandberg, A.
A., Isaacs, J. T., and Wada, F. Heparin Binding

Affinity of Rat Prostatic Growth Factor in Normal and Cancerous Prostates: Partial Purification and Characterization of Rat Prostatic Growth Factor in the Dunning Tumor, 188

Mauer, A. M. See Hunter, Broadway, Sun, Niell, and Mauer, 2737

Maurel, C. See Blottière, Maurel, and Douillard, 5238

Maurer, R. See Reubi, Lang, Maurer, Koper, and Lamberts, 5758; Reubi, Maurer, von Werder, Torhorst, Klijn, and Lamberts, 551

Mauthe, R. J. See Moore, Pruess-Schwartz, Mauthe, Gould, and Baird, 4402

Mavelli, I. See Lazzarino, Viola, Mulieri, Rotilio,

and Mavelli, 6511

and Mavell, S. A., Kurzrock, R., Parsons, S. J., Tal-paz, M., Gallick, G. E., Kloetzer, W. S., Arlin-ghaus, R. B., Kouttab, N. M., Keating, M. J., and Gutterman, J. U. Analysis of P210^{br-ab}l Tyrosine Protein Kinase Activity in Various Subtypes of Philadelphia Chromosome-positive Cells from Chronic Myelogenous Leukemia Patients, 1731

Maybaum, J., Morgans, C. W., and Hink, L. A. Comparison of in Vivo and in Vitro Effects of Continuous Exposure of L1210 Cells to 6-Thi-

oguanine, 3083

Mayer, R. See Lee, Erturk, Mayer, and Cockett,

Mayer, T. C. See Yavelow, Scott, and Mayer, 1602 Mayo, J. G. See Gorelik, Ovejera, Shoemaker, Jarvis, Alley, Duff, Mayo, Herberman, and Boyd, 5739; McLemore, Liu, Blacker, Gregg, Alley, Abbott, Shoemaker, Bohlman, Litterst, Hubbard, Brennan, McMahon, Fine, Eggleston, Mayo, and Boyd, 5132

Mazeau, C. See Gioanni, Samson, Zanghellini,

Mazeau, Ettore, Demard, Chauvel, Duplay, Schneider, Laurent, and Lalanne, 4417

McAllister, C. B. See Kaisary, Smith, Jaczq, McAllister, Wilkinson, Ray, and Branch, 5488 McAvinchey, D. See Hamilton, Hyland, Mc-Avinchey, Chaudhry, Hartka, Kim, Cichon, Floyd, Turjman, Kessie, Nair, and Dick, 1551 McCabe, R. P. See Doyle, Koths, Brindley, Fong,

Halenbeck, Ransom, Pomato, Cleveland, Mc-

Cabe, and Hanna, 914

McCaffrey, P. G., and Rosner, M. R. Growth Statedependent Regulation of Protein Kinase C in Normal and Transformed Murine Cells, 1081 McCaffrey, R. See Spigelman, Dowers, Kennedy,

DiSorbo, O'Brien, Barr, and McCaffrey, 4694 McCamant, S. K. See Jones, Ota, Jackson, Jackson, Kemp, Anderson, McCamant, and Bauman, 5224

McCarthy, D. J., Lindamood, C., III, and Hill, D. L. Effects of Retinoids on Metabolizing Enzymes and on Binding of Benzo(a)pyrene to Rat Tissue DNA, 5014

McClelland, R. A. See Barrett-Lee, Travers, McClelland, Luqmani, and Coombes, 6653; Berger, Wilson, McClelland, Colston, Haussler,

Pike, and Coombes, 6793

McClelland, R. A., Berger, U., Wilson, P., Powles, T. J., Trott, P. A., Easton, D., Gazet, J-C., and Coombes, R. C. Presurgical Determination of Estrogen Receptor Status Using Immunocytochemically Stained Fine Needle Aspirate Smears in Patients with Breast Cancer, 6118

McComish, M. F. See Plowman, Harrison, Trader, Griswold, Chadwick, McComish, Silveira, and

Zaharko, 685

McCormick, D. L., Bagg, B. J., and Hultin, T. A. Comparative Activity of Dietary or Topical Exposure to Three Retinoids in the Promotion of Skin Tumor Induction in Mice, 5989

McCormick, J. J. See Hurlin, Fry, Maher, and McCormick, 5752

McCoy, G. D. See Eddy, Howard, McCoy, and Rosenkranz, 3163 McDaniel, K. M. See Nagle, Ahmann, McDaniel,

Paquin, Clark, and Celniker, 281

McDivitt, R. W. See Crouch, Stone, Bloch, and McDivitt, 6086

McEwan, R. N. See Albini, Iwamoto, Kleinman, Martin, Aaronson, Kozlowski, and McEwan,

McGarr, J. A. See Ratliff, Palmer, McGarr, and Brown, 1762 McGowan, S. E. See Skubitz, Northfelt, Mc-

Gowan, and Hoidal, 3072

McGuire, J. J., Sobrero, A. F., Hynes, J. B., and Bertino, J. R. Mechanism of Action of 5,8-Dideazaisofolic Acid and Other Quinazoline Antifols in Human Colon Carcinoma Cells,

McGuire, W. L. See Dressler, Seamer, Owens, Clark, and McGuire, 5294; Fuqua, Moretti-Rojas, Schneider, and McGuire, 2103; LeMaistre, Edwards, Krolick, and McGuire, 730

McGuire, W. P. See Rowinsky, Ettinger, McGuire, Noe, Grochow, and Donehower, 5788 McKenzie, I. F. C. See Smyth, Pietersz, and

McKenzie, 62

McKiel, C. F. See Rubenstein, Shaw, McKiel, Ray, and Guinan, 178

McKinna, A. See Coombes, Powles, Easton, Chilvers, Ford, Smith, McKinna, White, Bradbeer, Yarnold, Nash, Bettelheim, Dowsett, Gazet, and Investigators of the Collaborative Breast Cancer Project, 2494

McKnight, M. K. See Hoosein, Brattain, Mc-Knight, Levine, and Brattain, 2950

McKoy, W. M. See Behrens, Hamilton, Masuda, Grotzinger, Whang-Peng, Louie, Knutsen, McKoy, Young, and Ozols, 414

McLaughlin, J. K. See Linet, Harlow, and Mc-Laughlin, 2978; Malker, McLaughlin, Silver-man, Ericsson, Stone, Weiner, Malker, and Blot, 6763

McLaughlin, J. K., Malker, H. S. R., Malker, B. K., Stone, B. J., Ericsson, J. L. E., Blot, W. J., Weiner, J. A., and Fraumeni, J. F., Jr. Registrybased Analysis of Occupational Risks for Primary Liver Cancer in Sweden, 287

McLemore, T. L., Liu, M. C, Blacker, P. C., Gregg, M., Alley, M. C., Abbott, B. J., Shoemaker, R. H., Bohlman, M. E., Litterst, C. C., Hubbard, W. C., Brennan, R. H., McMahon, J. B., Fine, D. L., Eggleston, J. C., Mayo, J. G., and Boyd, M. R. Novel Intrapulmonary Model for Orthotopic Propagation of Human Lung Cancers in Athymic Nude Mice, 5132

McLeod, D. A. See Thrail, Page, and McLeod,

McMahon, A. See Jarrell, Lai, Barr, McMahon, Belbeck, and O'Connell, 2340; Jarrell, Youn Lai, McMahon, Barr, O'Connell, and Belbeck.

McMahon, J. B. See Lau, McMahon, Mc-Menamin, Schuller, and Boyd, 3757; Mc-Lemore, Liu, Blacker, Gregg, Alley, Abbott, Shoemaker, Bohlman, Litterst, Hubbard, Brennan, McMahon, Fine, Eggleston, Mayo, and Boyd, 5132

McManaway, M. E., Jagoda, E. M., Kasid, A., Eckelman, W. C., Francis, B. E., Larson, S. M., Gibson, R. E., Reba, R. C., and Lippman, M. E. [125]]17-α-Iodovinyl 11-β-Methoxyestradiol Interaction in Vivo with Estrogen Receptors in Hormone-independent MCF-7 Human Breast Cancer Transfected with the v-rasH Oncogene, 2945

McManis, J. See Porter, McManis, Casero, and Bergeron, 2821

McMenamin, M. G. See Lau, McMahon, Mc-Menamin, Schuller, and Boyd, 3757

McMorris, T. C. See Kelner, McMorris, Beck, Zamora, and Taetle, 3186 McPherson, E. See Schein, Green, Dean, and

McPherson, 696

McTiernan, A., Weiss, N. S., and Daling, J. R. Incidence of Thyroid Cancer in Women in Relation to Known or Suspected Risk Factors for Breast Cancer, 292

McVie, J. G., and Muggia, F. M. European Organization for Research and Treatment of Cancer Workshop: Problems and Prospects in Current Therapeutic Application of Molecular Biology, 3032, Meeting Report

Meador, J., Sweet, P., Stupecky, M., Wetzel, M., Murray, S., Gupta, S., and Slater, L. Enhancement by Cyclosporin A of Daunorubicin Efficacy in Ehrlich Ascites Carcinoma and Murine Hepatoma 129, page 6216

Meadows, A. T. See Bunin, Kramer, Marrero, and Meadows, 2972

Meadows, G. G. See Horstman, Meadows, and Yost, 1547

Mease, B. A. See Borlinghaus, Fitzpatrick, Heindel, Mattis, Mease, Schray, Shealy, Walton, and Woo, 4071

Medina, D. See Schwartz and Medina, 5707 Medina, D., Schwartz, M., Taha, M., Oborn, C. J.,

and Smith, G. H. Expression of Differentiationspecific Proteins in Preneoplastic Mammary Tissues in BALB/c Mice, 4686

Meeus, L. See Khayat, Lokiec, Bizzari, Weil, Meeus, Sellami, Rouesse, Banzet, and Jacquillat, 6782

Mehta, P., Lawson, D., Ward, M. B., Kimura, A., and Gee, A. Effect of Human Tumor Cells on Platelet Aggregation: Potential Relevance to Pattern of Metastasis, 3115

Meijer, C., Mulder, N. H., Timmer-Bosscha, H., Zijlstra, J. G., and de Vries, E. G. E. Role of Free Radicals in an Adriamycin-resistant Human Small Cell Lung Cancer Cell Line, 4613

Meisner, L. F. See Willson, Bittner, Oberley, Meisner, and Weese, 2704

Meistrich, M. L. See da Cunha, Meistrich, and Nader, 1093

Melamed, M. R. See Kunicka, Darzynkiewicz, and Melamed, 3942; Stephenson, James, Gay, Fair, Whitmore, and Melamed, 2504; Traganos, Bueti, Darzynkiewicz, and Melamed, 424

Melchionne, S. See Segal, Seidman, and Melchionne 3402

Melder, D. C. See Powis, Hodnett, Santone, See, and Melder, 2363

Melera, P. W. See Fairchild, Ivy, Kao-Shan, Whang-Peng, Rosen, Israel, Melera, Cowan, and Goldsmith, 5141

Melia, M. See Ganapathi, Grabowski, Schmidt, Bell, and Melia, 3464

Melikian, A. A. See Hecht, Amin, Huie, Melikian, and Harvey, 5310

Melikian, A. A., Bagheri, K., and Hecht, S. S. Contrasting Disposition and Metabolism of Topically Applied Benzo(a)pyrene, trans-7,8-Dihydroxy-7,8-dihydrobenzo(a)pyrene, and 7β ,8 α -Dihydroxy- 9α , 10α -epoxy-7,8,9,10-tetrahydrobenzo(a)pyrene in Mouse Epidermis in Vivo, 5354

Mendelsohn, J. C. See Sauvage, Mendelsohn, Les-

ley, and Trowbridge, 747

Menter, D. G., Steinert, B. W., Sloane, B. F., Gundlach, N., O'Gara, C. Y., Marnett, L. J., Diglio, C., Walz, D., Taylor, J. D., and Honn, K. V. Role of Platelet Membrane in Enhancement of Tumor Cell Adhesion to Endothelial Cell Extracellular Matrix, 6751

Menter, D. G., Steinert, B. W., Sloane, B. F., Taylor, J. D., and Honn, K. V. A New in Vitro Model for Investigation of Tumor Cell-Platelet-**Endothelial Cell Interactions and Concomitant** Eicosanoid Biosynthesis, 2425

Merchant, R. E. See Ellison, Povlishock, and Mer-

chant, 5765; Fairman, Glauser, Merchant, Bechard, and Fowler, 3528 Meredith, M. J., and Dodson, M. L. Impaired

Glutathione Biosynthesis in Cultured Human Ataxia-Telangiectasia Cells, 4576 Merl, S. A. See Graziano, Lehr, Merl, Ehrlich,

Moore, Hallinan, Hubbell, Davey, Vournakis, and Poiesz, 2468 Merlo, G. See Ohuchi, Horan Hand, Merlo, Fujita,

Mariani-Costantini, Thor, Nose, Callahan, and Schlom, 1413 Merrill, A. H., Jr. See Girard, Stevens, Blackshear,

Merrill, Wood, and Kuo, 2892 Merritt, W. D., Casper, J. T., Lauer, S. J., and

Reaman, G. H. Expression of GD3 Ganglioside in Childhood T-Cell Lymphoblastic Malignancies, 1724

Meruelo, D. See Zalman and Meruelo, 193 Mesker, W. E. See Rodenburg, Ploem-Zanijer, Cornelisse, Mesker, Hermans, Heintz, Ploem, and Fleuren, 3938

Mesnil, M. See Yamasaki, Hollstein, Mesnil, Martel, and Aguelon, 5658

Messing, E. M., and Reznikoff, C. A. Normal and Malignant Human Urothelium: In Vitro Effects of Epidermal Growth Factor, 2230

Messing, R. O. See Greenberg, Carpenter, and Messing, 70

Metral, C. J. See Wade, Yang, Metral, Roman, Hrabie, Riggs, Anjo, Keefer, and Mico, 3373 Metz, E. N. See Leiby, Snider, Kraut, Metz, Mal-speis, and Grever, 2719

Metzgar, R. S. See Haagensen, Metzgar, Sawlivich, Swenson, Davis, Newman, Zamcheck, Wells, and Hansen, 5606

Metzger, G. See Bravo Cuellar, Scott Algara, Metzger, and Orbach-Arbouys, 3477

Meyer, T. See Bürkle, Meyer, Hilz, and zur Hausen. 3632

Meyers, P. See Tan, Hancock, Steinherz, Bacha, Steinherz, Luks, Winick, Meyers, Mondora, Dantis, Niedzwiecki, and Stevens, 2990

Meyers, W. C. See Rudo, Meyers, Dauterman, and

Langenbach, 5861

Meyer zum Büschenfelde, K-H. See Dippold, Bernhard, Klingel, Dienes, Kron, Schneider, Knuth, and Meyer zum Büschenfelde, 3873; Dippold, Klingel, Bernhard, Dienes, Knuth, and Meyer zum Büschenfelde, 2092; Klingel, Mincheva, Kahn, Gissmann, Dippold, Meyer zum Büschenfelde, and zur Hausen, 4485

Meyskens, F. L., Jr. See Bertram, Kolonel, and

Meyskens, 3012

Mian, A. M., and Furusawa, S. Antitumor Activity and Mechanism of Action of 6-Thio-3-deazaguanine, 1863

Miao, J. See Deng, Lu, Chen, Miao, Lu, Li, Cai, Xu, E, and Liu, 3195

Michelson, A. M. See Vogelstein, Fearon, Hamilton, Preisinger, Willard, Michelson, Riggs, and Orkin, 4806

Michelson, S. See Leith, Michelson, Faulkner, and Bliven, 1045

Mico, B. A. See Wade, Yang, Metral, Roman, Hrabie, Riggs, Anjo, Keefer, and Mico, 3373 Midorikawa, O. See Li, Okada, Hamazaki, Ebina,

and Midorikawa, 1867

Midorikawa, Y. See Kimura, Inoue, Yamashita,

Midorikawa, Arai, and Sendo, 6204 Mihich, E. See Hori, Ehrke, Mace, Maccubbin, Doyle, Otsuka, and Mihich, 2793; Hori, Ehrke, Mace, and Mihich, 5868

Miike, R. See Gruenke, Wrensch, Petrakis, Miike,

Ernster, and Craig, 5483
Milas, L., Wike, J., Hunter, N., Volpe, J., and Basic, I. Macrophage Content of Murine Sarcomas and Carcinomas: Associations with Tumor Growth Parameters and Tumor Radiocur-

ability, 1069 Miles, B. J. See Babu, Lutz, Miles, Farah, Weiss, and Van Dyke, 6800

Milgrom, E. See Perrot-Applanat, Groyer-Picard, Lorenzo, Jolivet, Hai, Pallud, Spyratos, and Milgrom, 2652

Milhaud, G. See Bouizar, Rostène, Treilhou-Lahille, Pidoux, Milhaud, and Moukhtar, 3595

Miller, A. A., and Schmidt, C. G. Clinical Pharmacology and Toxicity of 4'-O-Tetrahydropyranyladriamycin, 1461

Miller, D. R., Viaje, A., Aldaz, C. M., Conti, C. J., and Slaga, T. J. Terminal Differentiation-resistant Epidermal Cells in Mice Undergoing Two-Stage Carcinogenesis, 1935

Miller, E. C. See Wiseman, Miller, Miller, and

Liem, 2275

Miller, G. J., Hamburg, R. J., and Ferrara, J. A. Phenotypic Modulation of the Swarm Rat Chondrosarcoma Induced by Morphogenetic Bone Matrix, 3589

Miller, J. A. See Wiseman, Miller, Miller, and Liem, 2275

Miller, K. See Gerson, Trey, Miller, and Benjamin,

Miller, L. L. See Spitler, del Rio, Khentigan, Wedel, Brophy, Miller, Harkonen, Rosendorf, Lee, Mischak, Kawahata, Stoudemire, Fradkin, Bautista, and Scannon, 1717

Miller, P. See Stevenson, Keenan, Woodhouse, Ottow, Miller, Steller, Foon, Abrams, Beman, Larson, and Sugarbaker, 6100

Miller, R. W. See Parry, Mulvihill, Miller, Berg,

and Carter, 6814 Miller, W. R. See Clair, Miller, and Cho-Chung,

Millis, R. See Burchell, Gendler, Taylor-Papadimitriou, Girling, Lewis, Millis, and Lamport, 5476

Millman, I. See De Flora, Camoirano, Romono, Astengo, Cesarone, and Millman, 4052

Mills, J. See Pera, Friedlos, Mills, and Roberts, 6810

Mills, K. T. See Bern, Edery, Mills, Kohrman, Mori, and Larson, 4165

4

Mincheva, A. See Klingel, Mincheva, Kahn, Gissmann, Dippold, Meyer zum Büschenfelde, and zur Hausen, 4485

Minna, J. D. See Bepler, Carney, Gazdar, and Minna, 2371; Carmichael, DeGraff, Gazdar, Minna, and Mitchell, 936, 943; Carney, Cuttitta, Moody, and Minna, 821; Doyle, Cuttitta, Mulshine, Bunn, and Minna, 5009; Knop, Carney, Chen, Cohen, and Minna, 3357; Park, Kramer, Steinberg, Carmichael, Collins, Minna,

and Gazdar, 5875 Minowada, J. See Ohyashiki, Ohyashiki, Sandberg, Minowada, and Kinniburgh, 3842 Mioh, H. See Chen, Li, and Mioh, 4995

Mirabelli, C. K. See Mattern, Mong, Bartus, Mirabelli, Crooke, and Johnson, 1793 Miraldi, F. See Heiner, Miraldi, Kallick, Makley,

Neely, Smith-Mensah, and Cheung, 5377

Mira-y-Lopez, R., and Ossowski, L. Hormonal Modulation of Plasminogen Activator: An Approach to Prediction of Human Breast Tumor Responsiveness, 3558

Mirkes, P. E. See Little and Mirkes, 5421 Mirkin, B. L. See Fink and Mirkin, 5620; O'Dea, Mirkin, Hogenkamp, and Barten, 3656

Mirkin, B. L., O'Dea, R. F., and Hogenkamp, H.
P. Cytotoxic Action of Adenosine Nucleoside and Dialdehyde Analogues on Murine Neuroblastoma in Tissue Culture: Structure-Activity Relationships, 3650

Mirski, S. E. L., Gerlach, J. H., and Cole, S. P. C. Multidrug Resistance in a Human Small Cell Lung Cancer Cell Line Selected in Adriamycin,

2594

Mischak, R. P. See Harkonen, Stoudemire, Mischak, Spitler, Lopez, and Scannon, 1377; Spitler, del Rio, Khentigan, Wedel, Brophy, Miller, Harkonen, Rosendorf, Lee, Mischak, Kawahata, Stoudemire, Fradkin, Bautista, and Scannon, 1717

Mitchell, J. B. See Carmichael, DeGraff, Gazdar, Minna, and Mitchell, 936, 943

Mitchell, M. S. See Grunberg, Kempf, Venturi, and Mitchell, 1174

Mittelman, A. See Manly, Petrelli, Anderson, Emrich, Herrera, and Mittelman, 6156 Mitter, N. S. See Graziano, Cowan, Carney, Bryke,

Mitter, Johnson, Mark, Planas, Catino, Comis, and Poiesz, 2148 Miura, T. See Billings, Shuin, Lillehaug, Miura,

Roy-Burman, and Landolph, 3643 Miura, Y. See Furukawa, Ohta, Kasahara, Miura,

and Saito, 2589; Komatsu, Suda, Suda, and Miura, 6371; Suda, Sakamoto, Hida, Kano, Takaku, and Miura, 2782

Mivechi, N. F., and Li, G. C. Lack of Effect of Thermotolerance on Radiation Response and Thermal Radiosensitization of Murine Bone Marrow Progenitors, 1538

Miyadai, T. See Yokochi, Kawashima, Nakashima, Nagase, Isobe, Nagura, Yamada, Miyadai, and Kimura, 1006

Miyasaka, T. See Kunimoto, Nitta, Tanaka, Uehara, Baba, Takeuchi, Yokokura, Sawada, Miyasaka, and Mutai, 5944

Miyauchi, M. See Kikuchi, Kizawa, Oomori, Miyauchi, Kita, Sugita, Tenjin, and Kato, 592; Kikuchi, Oomori, Kizawa, Hirata, Kita, Miyauchi, and Kato, 6459

Miyauchi, Y. See Yamasaki, Konno, Miyauchi, and Maeda, 852

Miyazaki, K. See Yasumoto, Miyazaki, Nagashima, Ishida, Kuda, Yano, Sugimachi, and Nomoto, 2184

Miyazaki, T. See Fujii, Yuki, Takeichi, Kobayashi, and Miyazaki, 1668

Miyazawa, T. See Hayatsu, Kasai, Yokoyama, Miyazawa, Yamaizumi, Sato, Nishimura, Arimoto, Hayatsu, and Ohara, 791

Miyoshi, I. See Chiba, Oikawa, Naiki, Takimoto, Miyoshi, Mizuno, Yamashina, Yamagiwa, and Kobayashi, 1815

Mizota, T. See Manda, Shimomura, Mukumoto, Kobayashi, Mizota, Hirai, Matsumoto, Oku, Nishigaki, Mori, and Kikuchi, 3707

Mizrahi, N. See Fingert, Chen, Mizrahi, Gajewski,

Bamberg, and Kradin, 3824 Mizuno, S. See Chiba, Oikawa, Naiki, Takimoto, Miyoshi, Mizuno, Yamashina, Yamagiwa, and Kobayashi, 1815

Mobbs, B. G., Johnson, I. E., DeSombre, E. R., Toth, J., and Hughes, A. Regulation of Estrogen and Progestin Receptor Concentrations in an Experimental Rat Prostatic Carcinoma by Estrogen, Antiestrogen, and Progesterone, 2645 Mochizuki, M. See Endo, Nishimura, Kawano,

Mochizuki, and Kobata, 5242

Mock, A. See Bogenmann, Moghadam, DeClerck, and Mock, 3808

Modica-Napolitano, J. S., and Aprille, J. R. Basis for the Selective Cytotoxicity of Rhodamine 123, page 4361

Mogami, H. See Yamada, Ushio, Hayakawa, Arita, Huang, Nagatani, Yamada, and Mogami,

Moghadam, H. See Bogenmann, Moghadam, DeClerck, and Mock, 3808

Mohr, U. See Emura, Mohr, Riebe, Aufderheide, and Dungworth, 1155; Ernst, Emura, Bellmann, Seinsch, and Mohr, 5112

Moirier, R. See Davie, Delcuve, Nickel, Moirier,

and Bailey, 5407
Mokler, C. M. See Ruenitz, Arrendale, George,
Thompson, Mokler, and Nanavati, 4015
Mokyr, M. B. See Bartik, Takesue, and Mokyr,

Moldawer, L. L. See Ternell, Moldawer, Lönnroth,

Gelin, and Lundholm, 5825 Moldenhauer, G. See Momburg, Moldenhauer,

Hämmerling, and Möller, 2883

Molla, A. See Maeda, Matsumura, and Molla, 563 Möller, P. See Momburg, Moldenhauer, Hämmerling, and Möller, 2883

Molloy, C. J., and Laskin, J. D. Specific Alterations in Keratin Biosynthesis in Mouse Epidermis in Vivo and in Explant Culture following a Single Exposure to the Tumor Promoter 12-O-Tetradecanoylphorbol-13-acetate, 4674

Molthoff, C. See Rodeck, Herlyn, Herlyn, Molthoff, Atkinson, Varello, Steplewski, and Ko-

prowski, 3692

Momburg, F., Moldenhauer, G., Hämmerling, G. J., and Möller, P. Immunohistochemical Study of the Expression of a Mr 34,000 Human Epithelium-specific Surface Glycoprotein in Normal and Malignant Tissues, 2883

Momma, S. See Greig, Momma, Sweeney, Smith, and Rapoport, 1571

Moncharmont, B. See Marchetti, Querzoli, Moncharmont, Parikh, Bagni, Marzola, Fabris, and Nenci, 2508

Mondellini, P. See Borrello, Pierotti, Bongarzone, Donghi, Mondellini, and Della Porta, 75

Mondora, A. See Tan, Hancock, Steinherz, Bacha, Steinherz, Luks, Winick, Meyers, Mondora, Dantis, Niedzwiecki, and Stevens, 2990

Monet, J-D., Thomas, M., Dautigny, N., Brami, M., and Bader, C. A. Effects of 17β-Estradiol and R5020 on Glucose-6-phosphate Dehydrogeanse Activity in MCF-7 Human Breast Cancer Cells: A Cytochemical Assay, 5116

Mong, S-M. See Mattern, Mong, Bartus, Mira-belli, Crooke, and Johnson, 1793 Montcourrier, P. See Bardon, Vignon, Montcour-

rier, and Rochefort, 1441 Moodie, E. See Balkwill, Ward, Moodie, and Fiers,

4755 Moody, T. W. See Carney, Cuttitta, Moody, and

Minna, 821 Moore, C. J., Eldridge, S. R., Tricomi, W. A., and Gould, M. N. Quantitation of Benzo(a)pyrene and 7.12-Dimethylbenz(a)anthracene Rinding

to Nuclear Macromolecules in Human and Rat Mammary Epithelial Cells, 2609

Moore, C. J., Pruess-Schwartz, D., Mauthe, R. J., Gould, M. N., and Baird, W. M. Interspecies Differences in the Major DNA Adducts Formed from Benzo(a)pyrene but not 7,12-Dimethylbenz(a)anthracene in Rat and Human Mammary Cell Cultures, 4402

Moore, G. P. See Brown, Davis, Saltzgaber-Muller, Simon, Ho, Shaw, Stone, Sands, and Moore, 3577

Moore, J. See Peters, Henner, Grochow, Olsen, Edwards, Stanbuck, Stuart, Gockerman, Moore,

Bast, Seigler, and Colvin, 6402 Moore, J. L. See Graziano, Lehr, Merl, Ehrlich, Moore, Hallinan, Hubbell, Davey, Vournakis,

and Poiesz, 2468

Moore, M. M. See Arce, Allen, Doerr, Elmore, Hatch, Moore, Sharief, Grunberger, and Nesnow. 3388

Moretti, L. See Torelli, Venturelli, Coló, Zanni, Selleri, Moretti, Calabretta, and Torelli, 5266

Moretti-Rojas, I. M. See Fuqua, Moretti-Rojas, Schneider, and McGuire, 2103

Morgan, A. C., Jr. See Eger, Covell, Carrasquillo, Abrams, Foon, Reynolds, Schroff, Morgan, Lar-

son, and Weinstein, 3328; Sivam, Pearson, Bohn, Oldham, Sadoff, and Morgan, 3169 Morgan, A. R., Garbo, G. M., Kreimer-Birnbaum, M., Keck, R. W., Chaudhuri, K., and Selman, S. H. Morphological Study of the Combined Effect of Purpurin Derivatives and Light on Trans-plantable Rat Bladder Tumors, 496

Morgan, P. H. See Boucheron, Richardson, Mor-

gan, and Swenberg, 1577

lorgan, R. See Smith, Morgan, Galili, Amylon, Link, Hecht, Sklar, and Glader, 1652 Morgans, C. W. See Maybaum, Morgans, and

Hink, 3083 Mori, J. See Manda, Shimomura, Mukumoto, Ko-

bayashi, Mizota, Hirai, Matsumoto, Oku, Ni-

shigaki, Mori, and Kikuchi, 3707 Mori, S., Kurata, Y., Takeuchi, Y., Toyama, M., Makino, S., and Fukushima, S. Influences of

Strain and Diet on the Promoting Effects of Sodium L-Ascorbate in Two-Stage Urinary Bladder Carcinogenesis in Rats, 3492 Mori, T. See Bern, Edery, Mills, Kohrman, Mori,

and Larson, 4165

Mori, Y. See Mukai, Shinkai, Tateishi, Mori, and

Akedo, 2167 Moriguchi, S. See Gensler, Watson, Moriguchi,

and Bowden, 967

Morikawa, K., Okada, F., Hosokawa, M., and Kobayashi, H. Enhancement of Therapeutic Effects of Recombinant Interleukin 2 on a Transplantable Rat Fibrosarcoma by the Use of a Sustained Release Vehicle, Pluronic Gel, 37

Morimoto, M. See Fujimoto, Oka, and Morimoto, 1516

Morla, A. O. See Richardson, Morla, and Wang, 4066

Morley, A. A. See Seshadri, Kutlaca, Trainor, Matthews, and Morley, 407

Mornet, F. See Alessandri, Filippeschi, Sinibaldi, Mornet, Passera, Spreafico, Cappa, and Gullino, 4243

Morris, R. G. See Reece, Morris, Bishop, Olver, and Raghavan, 2996

Morrison, A. See Yu, Henderson, Austin, Delzell, Cole, Grufferman, Levine, Morrison, and Stollev. 654

Morse, H. C., III See Klinken, Billelo, Bauer, Morse, and Thorgeirsson, 2638

Morse, M. A., Baird, W. M., and Carlson, G. P. Distribution, Covalent Binding, and DNA Adduct Formation of 7,12-Dimethylbenz(a)anthracene in SENCAR and BALB/c Mice following Topical and Oral Administration, 4571

Morstyn, G. See Scourides, Böhmer, Kaye, and Morstyn, 3439; Werkmeister, Triglia, Mackay, Dowling, Varigos, Morstyn, and Burns, 225

Morstyn, G., Brown, J., Novak, U., Gardner, J., Bishop, J., and Garson, M. Heterogeneous Cytogenetic Abnormalities in Small Cell Lung Cancer Cell Lines, 3322

Moser, C. E., Jr. See Willey, Grafstrom, Moser, Ozanne, Sundqvist, and Harris, 2045

Moses, H. L. See Coffey, Goustin, Soderquist, Shipley, Wolfshohl, Carpenter, and Moses, 4590; Halper and Moses, 4552; Keski-Oja, Lyons, and Moses, 6451

Moskal, J. R., Lockney, M. W., Marvel, C. C., Trosko, J. E., and Sweeley, C. C. Effect of Reti-noic Acid and Phorbol-12-myristate-13-acetate or Glycosyltransferase Activities in Normal and Transformed Cells, 787

Moss, M. S. See Ranken, White, Gottfried, Yonkovich, Blazek, Moss, Fee, and Liu, 5684

Mossman, B. T. See Hansen and Mossman, 1681 Moukhtar, M. S. See Bouizar, Rostène, Treilhou-Lahille, Pidoux, Milhaud, and Moukhtar, 3595 unt, C. D. See Stromberg, Hudgins, Dorman, Henderson, Sowder, Sherrell, Mount, and Orth,

Mountjoy, K. G., Finlay, G. J., and Holdaway, I. M. Abnormal Insulin-Receptor Down Regulation and Dissociation of Down Regulation from Insulin Biological Action in Cultured Human Tumor Cells, 6500

Mouridsen, H. T. See Thorpe, Rose, Rasmussen,

Mouridsen, Bayer, and Keiding, 6126 Muggia, F. M. See McVie and Muggia, 3032 Muhlbaier, L. H. See Lee, Bullard, Wikstrand, Zalutsky, Muhlbaier, and Bigner, 1941

Muir, C. S. See Hall, Inskip, Loik, Tomatis, Day, O'Conor, Bosch, Muir, Parkin, Muñoz, Greenwood, Whittle, Ryder, Oldfield, N'jie, Smith, and Coursaget, 5782

Mujoo, K., Cheresh, D. A., Yang, H. M., and Reisfeld, R. A. Disialoganglioside G_{D2} on Human Neuroblastoma Cells: Target Antigen for Monoclonal Antibody-mediated Cytolysis and Suppression of Tumor Growth, 1098

Mukai, M., Shinkai, K., Tateishi, R., Mori, Y., and Akedo, H. Macrophage Potentiation of Invasive Capacity of Rat Ascites Hepatoma Cells, 2167

Mukai, R. See Koyama, Mukai, Fukao, Arimura, Iwasaki, and Osuga, 4667

Mukhtar, H. See Das, Khan, Asokan, Bickers, and Mukhtar, 767: Das, Mukhtar, Bik, and Bickers, 760; Klemme, Mukhtar, and Elmets, 6074

Mukumoto, S. See Manda, Shimomura, Mukumoto, Kobayashi, Mizota, Hirai, Matsumoto, Oku, Nishigaki, Mori, and Kikuchi, 3707

Mulder, N. H. See Meijer, Mulder, Timmer-Bosscha, Zijlstra, and de Vries, 4613; Zijlstra, de Vries, and Mulder, 1780

Mulieri, L. See Lazzarino, Viola, Mulieri, Rotilio, and Mayelli, 6511

Müller, W. E. G., Sladić, D., Zahn, R. K., Bässler, K-H., Dogović, N., Gerner, H., Gasić, M. J., an Schröder, H. C. Avarol-induced DNA Strand Breakage in Vitro and in Friend Erythroleukemia Cells, 6565

Mullins, T. D. See Lee, Pathak, Hopwood, Tomasovic, Mullins, Baker, Spitzer, and Neidhart,

Mulshine, J. L. See Doyle, Cuttitta, Mulshine, Bunn, and Minna, 5009; Keenan, Weinstein, Carrasquillo, Bunn, Reynolds, Foon, Smarte, Ghosh, Fejka, Larson, and Mulshine, 6093

Mulshine, J. L., Keenan, A. M., Carrasquillo, J. A., Walsh, T., Linnoila, R. I., Holton, O. D., Harwell, J., Larson, S. M., Bunn, P. A., and Weinstein, J. N. Immunolymphoscintigraphy of Pulmonary and Mediastinal Lymph Nodes in Dogs: A New Approach to Lung Cancer Imaging. 3572

Mulvihill, J. J. See Parry, Mulvihill, Miller, Berg, and Carter, 6814

Munholland, J. M., and Nazar, R. N. Methylation of Ribosomal RNA as a Possible Factor in Cell

Differentiation, 169

Munker, M., Munker, R., Saxton, R. E., and Koeffler, H. P. Effect of Recombinant Monokines, Lymphokines, and Other Agents on Clonal Proliferation of Human Lung Cancer Cell Lines, 4081

Munker, R. See Munker, Munker, Saxton, and Koeffler, 4081

Munn, D. H., and Cheung, N-K. V. Interleukin-2 Enhancement of Monoclonal Antibody-mediated Cellular Cytotoxicity against Human Melanoma, 6600

Muñoz, N. See Hall, Inskip, Loik, Tomatis, Day, O'Conor, Bosch, Muir, Parkin, Muñoz, Green-wood, Whittle, Ryder, Oldfield, N'jie, Smith, and Coursaget, 5782

Murai, K. See Akagi, Murai, Haddada, Levine, and Patch, 4086

Murakami, Y. See Eki, Enomoto, Murakami, Hanaoka, and Yamada, 5162

Muralidhar, G., and Trewyn, R. W. Enhancement of the Chemical Transformation of Chines Hamster Embryo Cells in Vitro by 7-Methylguanine, 2440

Muramatsu, M. See Kano, Sakai, and Muramatsu,

Muramatsu, T. See Kawata, Sekiya, Takamizawa, Muramatsu, and Okumura, 2288 Murant, R. S., Gibson, S. L., and Hilf, R. Photosensitizing Effects of Photofrin II on the Siteselected Mitochondrial Enzymes Adenylate Kinase and Monoamine Oxidase, 4323

Muraro, R. See Ohuchi, Wunderlich, Fujita, Colcher, Muraro, Nose, and Schlom, 3565; Thor, Muraro, Gorstein, Ohuchi, Viglione, Szpak, Johnston, and Schlom, 505

Murohashi, I. See Nara, Yamashita, Murohashi, Tanikawa, Imai, and Aoki, 2376

Murphree, A. L. See Benedict, Srivatsan, Mark Banerjee, Sparkes, and Murphree, 4189

Murphy, L. C., Lee-Wing, M., Goldenberg, G. J., and Shiu, R. P. C. Expression of the Gene Encoding a Prolactin-inducible Protein by Human Breast Cancers in Vivo: Correlation with Steroid Receptor Status, 4160

Murray, J. H. See Ho, Kato, Durda, Murray,

Wolfe, Rabin, and Carney, 241
Murray, S. See Meador, Sweet, Stupecky, Wetzel, Murray, Gupta, and Slater, 6216

Murthy, M. S., Rao, L. N., Khandekar, J. D., and Scanlon, E. F. Enhanced Therapeutic Efficacy of Cisplatin by Combination with Diethyldithiocarbamate and Hyperthermia in a Mouse

Murthy, U. See Basu, Murthy, Rodeck, Herlyn, Mattes, and Das, 2531

Muschel, R. J. See Garbisa, Pozzatti, Muschel, Saffiotti, Ballin, Goldfarb, Khoury, and Liotta, 1523

Musselman, B. See Kessel, Thompson, Musselman, and Chang, 4642

Mutai, M. See Kunimoto, Nitta, Tanaka, Uehara, Baba, Takeuchi, Yokokura, Sawada, Miyasaka, and Mutai, 5944

Muto, M., Kubo, E., and Sado, T. Development of Prelymphoma Cells Committed to Thymic Lymphomas during Radiation-induced Thymic Lymphomagenesis in B10 Mice, 3469

Myers, C. E. See Yeh, Occhipinti, Cowan, Chabner, and Myers, 5994

Myers, K. I. See Wiebe, Myers, and Auersperg,

Nader, S. See da Cunha, Meistrich, and Nader,

Nagai, K. See Magae, Hosokawa, Matsuda, Hotta, Hayasaki, Nagai, Ando, Yamasaki, and Tamura,

Nagaike, K. See Konno, Suzuki, Tadakuma, Kumai, Yasuda, Kubota, Ohta, Nagaike, Hosokawa, Ishibiki, Abe, and Saito, 4471

Nagamachi, Y. See Ikeda, Nakano, Nagashima, Sakamoto, Harasawa, Kitamura, Nakamura, and Nagamachi, 231

a, A., Satoh, M., and Imura, N. Prevention of Lethal and Renal Toxicity of cis-Diamminedichloroplatinum(II) by Induction of Me-tallothionein Synthesis without Compromising Its Antitumor Activity in Mice, 983

Nagasaka, A. See Kato, Asano, Kamiya, Haimoto, Hosoda, Nagasaka, Ariyoshi, and Ishiguro, 5800

Nagasaka, T. See Sobue, Takeuchi, Yoshida, Akao, Fukatsu, Nagasaka, and Nakashima, 160 Nagasawa, H., Kraemer, K. H., Shiloh, Y., and Little, J. B. Detection of Ataxia Telangiectasia Heterozygous Cell Lines by Postirradiation Cumulative Labeling Index: Measurements with Coded Samples, 398

Nagase, F. See Yokochi, Kawashima, Nakashima, Nagase, Isobe, Nagura, Yamada, Miyadai, and Kimura, 1006

Nagase, F., Rahman, S. M. J., Yokochi, T., Kawashima, K., Isobe, K.-I., Yoshida, T., Nagura, E-I., and Nakashima, I. Dynamics of Generation of Antigen-Loss Variants from L1210 Murine Leukemia Clones Detected by a Tumor-specific T-Cell Clone, 6494

Nagashima, A. See Yasumoto, Miyazaki, Nagashima, Ishida, Kuda, Yano, Sugimachi, and Nomoto, 2184

Nagashima, A., Yasumoto, K., Nakahashi, H., Takeo, S., Yano, T., and Nomoto, K. Antitumor Activity of Pleural Cavity Macrophages and Its Regulation by Pleural Cavity Lymphocytes in Patients with Lung Cancer, 5497

Nagashima, K. See Ikeda, Nakano, Nagashima, Sakamoto, Harasawa, Kitamura, Nakamura, and Nagamachi, 231

Nagatani, M. See Yamada, Ushio, Hayakawa, Arita, Huang, Nagatani, Yamada, and Mogami,

Nagatsu, T. See Terasaki, Shimosato, Nakajima, Tsumuraya, Ichinose, Nagatsu, and Kato, 3533 Nagle, R. B., Ahmann, F. R., McDaniel, K. M., Paquin, M. L., Clark, V. A., and Celniker, A. Cytokeratin Characterization of Human Prostatic Carcinoma and Its Derived Cell Lines, 281

Nagura, E-I. See Nagase, Rahman, Yokochi, Kawashima, Isobe, Yoshida, Nagura, and Nakashima, 6494; Yokochi, Kawashima, Nakashima, Nagase, Isobe, Nagura, Yamada, Miyadai, and Kimura, 1006

Nagy, P. See Evarts, Nagy, Marsden, and Thorgeirsson, 5469

Naiki, M. See Chiba, Oikawa, Naiki, Takimoto, Miyoshi, Mizuno, Yamashina, Yamagiwa, and Kobayashi, 1815

Nair, P. P. See Hamilton, Hyland, McAvinchey, Chaudhry, Hartka, Kim, Cichon, Floyd, Turjman, Kessie, Nair, and Dick, 1551

Nakadate, T., and Blumberg, P. M. Modulation by Palmitoylcarnitine of Protein Kinase C Activation, 6537

Nakagawa, H. See Blasberg, Nakagawa, Bourdon, Groothuis, Patlak, and Bigner, 4432

Nakagawa, M. See Shiraishi, Akiyama, Nakagawa, Kobayashi, and Kuwano, 2413

Nakagawa, T. See Matsuoka, Nakashima, Endo, Yoshida, Kunimatsu, Sakahara, Koizumi, Nakagawa, Yamaguchi, and Torizuka, 6335

Nakahashi, H. See Kuda, Yasumoto, Yano, Na-kahashi, Sugimachi, and Nomoto, 2199; Nagashima, Yasumoto, Nakahashi, Takeo, Yano, and Nomoto, 5497

Nakajima, M., Welch, D. R., Belloni, P. N., and Nicolson, G. L. Degradation of Basement Membrane Type IV Collagen and Lung Subendothelial Matrix by Rat Mammary Adenocarcinoma Cell Clones of Differing Metastatic Potentials,

Nakajima, T. See Hamada, Hagiwara, Nakajima, and Tsuruo, 2860

Nakajima, T. See Terasaki, Shimosato, Nakajima, Tsumurava, Ichinose, Nagatsu, and Kato, 3533 Nakajima, Y. See Okutomi, Nakajima, Sakakibara, Kawauchi, and Yamazaki, 47

Nakamura, H. See Tsujimoto, Noda, Ishikawa, Nakamura, Fukasawa, Sakakibara, Sasagawa, Honjo, and Hayami, 269

Nakamura, N. See Hiraoka, Nakamura, Nishizawa, Uchida, Noguchi, Matsumoto, and Sato, 6560; Noguchi, Nishizawa, Nakamura, Uchida, Yamaguchi, Sato, Kitamura, and Matsumoto, 263: Omukai, Nakamura, Hiraoka, Nishizawa, Uchida, Noguchi, Sato, and Matsumoto, 4329

Nakamura, T. See Ikeda, Nakano, Nagashima, Sakamoto, Harasawa, Kitamura, Nakamura, and Nagamachi, 231

Nakamura, T. See Oda, Watanabe, Sumii, Nakamura, Arakaki, and Shimotohno, 2077

Nakamura, T. See Umezawa, Nishikawa, Shibasaki, Takahashi, Nakamura, and Takeuchi, 3062 Nakamura, Y. See Tokunaga, Nakamura, Sakata, Fujimori, Ohkubo, Sawada, and Sakiyama,

Nakano, G-i. See Ikeda, Nakano, Nagashima, Sakamoto, Harasawa, Kitamura, Nakamura, and Nagamachi, 231

Nakano, M. See Fukushima, Kawaguchi, Nishida, Juni, Yamashita, Takahashi, and Nakano, 1930 Nakano, S. See Matsuoka, Sugimachi, Ueo, Kuwano, Nakano, and Nakayama, 4134

Nakano, T. See Tamura, Fujioka, Nakano, Hada, and Higashino, 6138

Nakashima, I. See Nagase, Rahman, Yokochi, Kawashima, Isobe, Yoshida, Nagura, and Nakashima, 6494; Yokochi, Kawashima, Nakashima, Nagase, Isobe, Nagura, Yamada, Miyadai, and Kimura, 1006

Nakashima, N. See Sobue, Takeuchi, Yoshida, Akao, Fukatsu, Nagasaka, and Nakashima, 160 Nakashima, T. See Matsuoka, Nakashima, Endo, Yoshida, Kunimatsu, Sakahara, Koizumi, Nakagawa, Yamaguchi, and Torizuka, 6335

Nakayama, M. See Matsuoka, Sugimachi, Ueo, Kuwano, Nakano, and Nakayama, 4134 Nanavati, N. T. See Ruenitz, Arrendale, George,

Thompson, Mokler, and Nanavati, 4015 Nandi, S. See Guzman, Osborn, Bartley, Imagawa, Asch, and Nandi, 275

Nara, N., Yamashita, Y., Murohashi, I., Tanikawa, S., Imai, Y., and Aoki, N. Effects on Leukemic Clonogenic Cells in Murine Myeloid Leukemia of 1-β-D-Arabinofuranosylcytosine and the An-

thracyclines Adriamycin, Daunomycin, Aclacinomycin A, and 4'-Epidoxorubicin, 2376 Nara, P. L., Dunlop, N. M., Robey, W. G., Callahan, R., and Fischinger, P. J. Lipoprotein-associated Oncornavirus-inactivating Factor in the Genus Mus: Effects on Murine Leukemia Vi-

ruses of Laboratory and Exotic Mice, 667 Nardone, R. M. See Huot, Nardone, and Stromberg, 383

Nash, A. See Coombes, Powles, Easton, Chilvers, Ford, Smith, McKinna, White, Bradbeer, Yar-nold, Nash, Bettelheim, Dowsett, Gazet, and Investigators of the Collaborative Breast Cancer Project, 2494

Natali, P. G. See Giacomini, Viora, Tecce, Knowles, Natali, and Ferrone, 5175; Liao, Smith, Kwong, Natali, Kusama, Hamby, and Ferrone, 4835; Ziai, Imberti, Nicotra, Badaracco, Segatto, Natali, and Ferrone, 2474

Nath, V. See Lloyd, Coleman, Fields, and Nath, 1087

Natori, S. See Ohsawa and Natori, 42 Nazar, R. N. See Munholland and Nazar, 169 Neacy, W. P. See Brown, Comeau, Jones, Liberatore, Neacy, Sands, and Gallagher, 1149

Neal, G. E. See Mandel, Manson, Judah, Simpson, Green, Forrester, Wolf, and Neal, 5218

Neame, P. B. See Clarke, Liao, Leeds, Soamboonsrup, and Neame, 4254 Nederman, T. See Acker, Carlsson, Holtermann,

Nederman, and Nylén, 3504 Neely, J. See Heiner, Miraldi, Kallick, Makley, Neely, Smith-Mensah, and Cheung, 5377

Negoro, S. See Matsumura, Sugimoto, Sawada, Amagai, Negoro, and Kemshead, 2924 Neidhart, J. A. See Lee, Pathak, Hopwood, To-

masovic, Mullins, Baker, Spitzer, and Neidhart, 6349; Rinehart, Young, Laforge, Colborn, and Neidhart, 2481

Nelson, D. L. See Lotze, Custer, Sharrow, Rubin, Nelson, and Rosenberg, 2188 Nelson, J. S., and Berns M. W. Biological Studies

on the Main Fractions of Hematoporphyrin Derivative, 1027

Nelson, J. S., Roberts, W. G., and Berns, M. W. In Vivo Studies on the Utilization of Mono-L-aspartyl Chlorin (NPe6) for Photodynamic Therару, 4681

Nelson, K. G., Haskill, J. S., Sloan, S., Siegfried, J. M., Siegal, G. P., Walton, L., and Kaufmar D. G. Flow Cytometric Analysis of Human Uterine Sarcomas and Cell Lines, 2814

Nelson, W. G. See Alexander, Nelson, and Coffey,

Nelson, W. G., Cho, K. R., Hsiang, Y-H., Liu, L. F., and Coffey, D. S. Growth-related Elevations of DNA Topoisomerase II Levels Found in Dunning R3327 Rat Prostatic Adenocarcinomas,

Nemec, J. See Haim, Nemec, Roman, and Sinha, 5835

Nenci, I. See Marchetti, Querzoli, Moncharmont, Parikh, Bagni, Marzola, Fabris, and Nenci,

Neptun, D. A. See Conway, Neptun, Garvey, and Popp, 4795

Neraas, K. A. See Thompson, Lee, Cox, Lindgren, Collins, Neraas, Dennin, and Fefer, 4202

Nesnow, S. See Arce, Allen, Doerr, Elmore, Hatch, Moore, Sharief, Grunberger, and Nesnow, 3388 Newby, M. See Young, Newby, and Wepsic, 100

Newman, E. See Haagensen, Metzgar, Sawlivich, Swenson, Davis, Newman, Zamcheck, Wells, and Hansen, 5606

Newman, R. A. See Andersson, Beran, Bakic, Sil-

berman, Newman, and Zwelling, 1040

Newton, C. See Stevens, Hickman, Langdon, Chubb, Vickers, Stone, Baig, Goddard, Gibson, Slack, Newton, Lunt, Fizames, and Lavelle,

Ng, H-T. See Ho, Chiang, Li, Yuan, and Ng, 3220 Nguyen, H. T. See Dell'Aquila, Nguyen, Herald,

Pettit, and Blumberg, 6006 Ngwenya, B. Z. See Yamamoto and Ngwenya,

Nichols, C. R. See Tricot, Jayaram, Nichols, Pennington, Lapis, Weber, and Hoffman, 4988 Nichols, W. W. See Little, Nove, Dahlberg, Troilo,

Nichols, and Strong, 4229 Nickel, B. E. See Davie, Delcuve, Nickel, Moirier, and Bailey, 5407

Nicolin, A. See Alama, Nicolin, Conte, and Drewinko, 1892

Nicolson, G. L. Tumor Cell Instability, Diversification, and Progression to the Metastatic Phenotype: From Oncogene to Oncofetal Expression, 1473, Perspectives in Cancer Research. See also Bugelski, Corwin, North, Kirsh, Nicolson, and Poste, 4141; Lichtner, Goka, Butcher, and Nicolson, 1870; Nakajima, Welch, Belloni, and Nicolson, 4869; Yoshida, Gallick, Irimura, and Nicolson, 2558

Nicotra, M. R. See Ziai, Imberti, Nicotra, Badar-

acco, Segatto, Natali, and Ferrone, 2474 Niedbala, M. J., Madiyalakan, R., Matta, K., Crickard, K., Sharma, M., and Bernacki, R. J. Role of Glycosidases in Human Ovarian Carcinoma Cell Mediated Degradation of Subendothelial Extracellular Matrix, 4634

Niedzwiecki, D. See Fanucchi, Kinahan, Samuels, Hancock, Chou, Niedzwiecki, Farag, Vidal, DeGraw, Sternberg, Sirotnak, and Young, 2334; Fanucchi, Walsh, Fleisher, Lokos, Williams, Cassidy, Vidal, Chou, Niedzwiecki, and Young, 3303; Tan, Hancock, Steinherz, Bacha, Steinherz, Luks, Winick, Meyers, Mondora, Dantis, Niedzwiecki, and Stevens, 2990

Niell, H. B. See Hunter, Broadway, Sun, Niell, and Mauer, 2737

Niho, Y. See Asano, Shibuya, Okamura, Yamaga, Otsuka, and Niho, 5647

Niimi, K. See Noso, Niimi, Nishiyama, Hirabayashi, Toge, Niimoto, and Hattori, 6418

Niimoto, M. See Noso, Niimi, Nishiyama, Hirabayashi, Toge, Niimoto, and Hattori, 6418 Nilsson, B. See Hansson, Lewensohn, Ringborg, and Nilsson, 2631

Nilsson, O. S. See Brosjö, Bauer, Broström, Nils-

son, Reinholt, and Tribukait, 258

Simec, Z. See Galivan, Nimec, and Rhee, 5256 Nime, S. M. See Hong, Pan, Dong, Ning, and Yang, 5948; Yoo, Ning, Patten, and Yang, 992 Ninomiya-Tsuji, J., Ishibashi, S., and Ide, T. Entrance of SV40-transformed Cells into G₀ Phase as Revealed by a Study Using the G₀-specific ts Mutant tsJT60, page 6028

Nishi, N. See Matuo, Nishi, Matsui, Sandberg, Isaacs, and Wada, 188

Nishida, M. See Fukushima, Kawaguchi, Nishida, Juni, Yamashita, Takahashi, and Nakano, 1930 Nishida, M. See Terakawa, Hayashida, Shimizu, Ikegami, Wakimoto, Aono, Tanizawa, Matsumoto, and Nishida, 1918

Nishigaki, F. See Manda, Shimomura, Mukumoto, Kobayashi, Mizota, Hirai, Matsumoto, Oku, Nishigaki, Mori, and Kikuchi, 3707

Nishii, Y. See Kasukabe, Honma, Hozumi, Suda, and Nishii, 567

Nishikawa, K. See Umezawa, Nishikawa, Shiba-saki, Takahashi, Nakamura, and Takeuchi, 3062 Nishimura, R. See Endo, Nishimura, Kawano, Mochizuki, and Kobata, 5242

Nishimura, S. See Hayatsu, Kasai, Yokoyama, Miyazawa, Yamaizumi, Sato, Nishimura, Arimoto, Hayatsu, and Ohara, 791

Nishimura, Y., Yokoyama, M., Araki, K., Ueda, R., Kudo, A., and Watanabe, T. Recombinant Human-Mouse Chimeric Monoclonal Antibody Specific for Common Acute Lymphocytic Leukemia Antigen, 999

Nishioka, K. See Grossie, Ota, Ajani, and Nishioka, 1836

Nishiyama, M. See Noso, Niimi, Nishiyama, Hir-

abayashi, Toge, Niimoto, and Hattori, 6418 Nishizawa, Y. See Hiraoka, Nakamura, Nishizawa, Uchida, Noguchi, Matsumoto, and Sato, 6560; Noguchi, Nishizawa, Nakamura, Uchida, Yamaguchi, Sato, Kitamura, and Matsumoto, 263; Omukai, Nakamura, Hiraoka, Nishizawa, Uchida, Noguchi, Sato, and Matsumoto, 4329

Nissen-Meyer, J., Austgulen, R., and Espevik, T. Comparison of Recombinant Tumor Necrosis Factor and the Monocyte-derived Cytotoxic Factor Involved in Monocyte-mediated Cyto-

toxicity, 2251

Nistér, M., Wedell, B., Betsholtz, C., Bywater, M., Pettersson, M., Westermark, B., and Mark, J. Evidence for Progressional Changes in the Human Malignant Glioma Line U-343 MGa: Analysis of Karyotype and Expression of Genes Encoding the Subunit Chains of Platelet-derived Growth Factor, 4953

Nitta, K. See Kunimoto, Nitta, Tanaka, Uehara, Baba, Takeuchi, Yokokura, Sawada, Miyasaka,

and Mutai, 5944

Nitta, K., Takayanagi, G., Kawauchi, H., and Hakomori, S-i. Isolation and Characterization of Rana catesbeiana Lectin and Demonstration of the Lectin-binding Glycoprotein of Rodent and Human Tumor Cell Membranes, 4877

Nixon, D. W. See Chawla, Lawson, Sarma, Nixon,

and Travis, 1179

N'jie, A. B. H. See Hall, Inskip, Loik, Tomatis, Day, O'Conor, Bosch, Muir, Parkin, Muñoz, Greenwood, Whittle, Ryder, Oldfield, N'jie, Smith, and Coursaget, 5782

Noda, Y. See Tsujimoto, Noda, Ishikawa, Nakamura, Fukasawa, Sakakibara, Sasagawa, Honjo,

and Hayami, 269

Noe, D. A. See Rowinsky, Ettinger, McGuire, Noe, Grochow, and Donehower, 5788

Noguchi, S. See Hayashi, Noguchi, and Oyasu,

Noguchi, S. See Hiraoka, Nakamura, Nishizawa, Uchida, Noguchi, Matsumoto, and Sato, 6560; Omukai, Nakamura, Hiraoka, Nishizawa, Uchida, Noguchi, Sato, and Matsumoto, 4329

Noguchi, S., Nishizawa, Y., Nakamura, N., Uchida N., Yamaguchi, K., Sato, B., Kitamura, Y., and Matsumoto, K. Growth-stimulating Effect of Pharmacological Doses of Estrogen on Androgen-dependent Shionogi Carcinoma 115 in Vivo but not in Cell Culture, 263

Noll, L. See Coleman, Halsey, Cox, Hirst, Blaschke, Howes, Wasserman, Urtasun, Pajak,

Hancock, Phillips, and Noll, 319 Nomoto, K. See Kuda, Yasumoto, Yano, Nakahashi, Sugimachi, and Nomoto, 2199; Nagashima, Yasumoto, Nakahashi, Takeo, Yano, and Nomoto, 5497; Tanaka, Koga, Taniguchi, and Nomoto, 2136; Yasumoto, Miyazaki, Nagashima, Ishida, Kuda, Yano, Sugimachi, and Nomoto, 2184

ra, H. See Sato, Fujii, Ono, Nomura, and

Shizume, 6474

Nomura, K. See Kawaguchi, Nomura, Hirayama, and Kitagawa, 4460 nura, S. See Yoshida, Nomura, and Beppu,

Nomura, T. See Rubin and Nomura, 4924

Nordlund, J. J. See Abdel-Malek, Swope, Amorn-

siripanitch, and Nordlund, 3141 Norman, M. J. See Katzenellenbogen, Kendra,

Norman, and Berthois, 4355

Normann, S. J., and Cornelius, J. Tumor Cytokinetics in the Presence of Normal, Alloimmune, or Bacillus Calmette-Guérin-activated Host Cells Simultaneously Assayed in Vivo and in Vitro, 2067

North, S. M. See Bugelski, Corwin, North, Kirsh, Nicolson, and Poste, 4141

Northfelt, D. W. See Skubitz, Northfelt, Mc-Gowan, and Hoidal, 3072

rton, J. A. See Inculet, Stein, Peacock, Leskiw, Maher, Gorscboth, and Norton, 4746; Kern and Norton, 4706; Peacock, Gorschboth, and Norton, 4318

Nose, M. See Ohuchi, Horan Hand, Merlo, Fujita, Mariani-Costantini, Thor, Nose, Callahan, and Schlom, 1413; Ohuchi, Wunderlich, Fujita, Colcher, Muraro, Nose, and Schlom, 3565

Noso, Y., Niimi, K., Nishiyama, M., Hirabayashi, N., Toge, T., Niimoto, M., and Hattori, T. Clinical Studies on a New Screening Assay for Anticancer Agents Using Nude Mice and Isotopic Evaluation, 6418

Novak, U. See Morstyn, Brown, Novak, Gardner, Bishop, and Garson, 3322 Nove, J. See Little, Nove, Dahlberg, Troilo, Ni-

chols, and Strong, 4229

Nowak, B. See Plunkett, Liliemark, Adams, Nowak, Estey, Kantarjian, and Keating, 3005

Nudelman, E. See Singhal, Singhal, Nudelman Hakomori, Balint, Grant, and Snyder, 5566 Nuesch, J. See Fidler, Heicappell, Saiki, Grutter, Horisberger, and Nuesch, 2020

Nunnally, R. L. See Corbett, Nunnally, Giovanella, and Antich, 5065

Nustad, K. See Kvalheim, Fodstad, Pihl, Nustad, Pharo, Ugelstad, and Funderud, 846 Nuti, M. See Castagna, Nuti, and Squartini, 902

Nutkis, J. E. See Smith, Braylan, Edmundson, Nutkis, and Wakeland, 2062

Nutter, L. M., Grill, S. P., Li, J-s., Tan, R-s., and Cheng, Y-c. Induction of Virus Enzymes by Phorbol Esters and n-Butyrate in Epstein-Barr Virus Genome-carrying Raji Cells, 4407

Nutting, E. F. See Liehr, Purdy, Baran, Nutting, Colton, Randerath, and Randerath, 2583

Nyce, J. See Antonsson, Avramis, Nyce, and Holcenberg, 3672

Nylén, T. See Acker, Carlsson, Holtermann, Ned-erman, and Nylén, 3504

0

Obara, T. See Baba, Klein-Szanto, Trono, Obara,

Yoakum, Masui, and Harris, 573 Oberley, T. D. See Christian, Loretz, Oberley, and Reznikoff, 6066; Willson, Bittner, Oberley, Meisner, and Weese, 2704

Oborn, C. J. See Medina, Schwartz, Taha, Oborn,

and Smith, 4686 O'Brian, C. A. See Guillem, O'Brian, Fitzer, Forde, LoGerfo, Treat, and Weinstein, 2036 O'Brien, M. See Spigelman, Dowers, Kennedy,

DiSorbo, O'Brien, Barr, and McCaffrey, 4694 O'Brien, T. G. See Gilmour, Verma, Madara, and O'Brien, 1221

Ocadiz, R., Sauceda, R., Cruz, M., Graef, A. M., and Gariglio, P. High Correlation between Molecular Alterations of the c-myc Oncogene and Carcinoma of the Uterine Cervix, 4173

Occhipinti, S. J. See Yeh, Occhipinti, Cowan, Chabner, and Myers, 5994

Ochs, R. L. See Freeman, Dowell, Ochs, Ross, and Busch, 586

O'Connell, G. See Jarrell, Lai, Barr, McMahon, Belbeck, and O'Connell, 2340; Jarrell, YoungLai, McMahon, Barr, O'Connell, and Belbeck, 5005

O'Connor, T. E. See Dupere, Bulba, and O'Connor, 2284

O'Conor, G. See Hall, Inskip, Loik, Tomatis, Day, O'Conor, Bosch, Muir, Parkin, Muñoz, Greenwood, Whittle, Ryder, Oldfield, N'jie, Smith, and Coursaget, 5782

Oda, T., and Maeda, H. Binding to and Internalization by Cultured Cells of Neocarzinostatin and Enhancement of Its Actions by Conjugation with Lipophilic Styrene-Maleic Acid Copolymer, 3206

Oda, T., Watanabe, S., Sumii, H., Nakamura, T., Arakaki, Y., and Shimotohno, K. Immunoelectron Microscopic Localization of the pX Gene Products in Human T-Cell Leukemia Virus Type 1-producing Cells, 2077

Odashima, S. See Ota, Fujikawa-yamamoto, Zong, Yamazaki, Odashima, Kitagawa, Abe, and Ari-

Odden, D. See Brooks, Horwitz, Odden, and Corbett, 4623

O'Dea, R. F. See Mirkin, O'Dea, and Hogenkamp, 3650

O'Dea, R. F., Mirkin, B. L., Hogenkamp, H. P., and Barten, D. M. Effect of Adenosine Analogues on Protein Carboxylmethyltransferase, S-Adenosylhomocysteine Hydrolase, and Ribonucleotide Reductase Activity in Murine Neuroblastoma Cells, 3656

O'Dwyer, P. J., King, S. A., Hoth, D. F., and Leyland-Jones, B. Role of Thymidine in Biochemical Modulation: A Review, 3911

Oesch, F. See Buchmann, Schwarz, Schmitt, Wolf, Oesch, and Kunz, 2911; Glatt, Eich, Pertz, Becker, and Oesch, 1811; Utesch, Glatt, and Oesch, 1509 Oettgen, H. F. See Palladino, Srivastava, Oettgen,

and DeLeo, 5074

Ofner, P., Leav, I., Boucher, W. S., and Vena, R. L. C₁₉-Radiosteroid Disposition in Organ Cultures of Transplanted Prostatic Adenocarcinomas of the Noble Rat, 1701

O'Gara, C. Y. See Menter, Steinert, Sloane, Gundlach, O'Gara, Marnett, Diglio, Walz, Taylor,

and Honn, 6751

Ogasawara, T. See Tsuji, Yoshioka, Ogasawara, Takemura, and Isojima, 3543 Ogata, E. See Yamashita, Hamada, Tsuruo, and

Ogata, 3736

Ogata, H. See Hattori, Uemura, Ogata, Katsu-yama, Taketomi, and and Kanfer, 1968

Ogata, T. See Endo, Kamma, and Ogata, 5427 Ogawa, K. See Ogawa, Kondo, Sugiyama, Ogawa,

Satake, and Ozawa, 1239 Ogawa, Y., Kondo, T., Sugiyama, S., Ogawa, K., Satake, T., and Ozawa, T. Role of Phospholipase in the Genesis of Doxorubicin-induced Cardio-

myopathy in Rats, 1239 Øgreid, D., Cho-Chung, Y. S., Ekanger, R., Vintermyr, O., Haavik, J., and Døskeland, S. O. Characterization of the Cyclic Adenosine 3':5'-Monophosphate Effector System in Hormone-de-

pendent and Hormone-independent Rat Mam-

mary Carcinomas, 2576

Oguma, S., Yoshida, Y., Uchino, H., and Maekawa, T. Factors Influencing Nonleukemic Death in Refractory Anemia, Refractory Anemia with Ring Sideroblasts, and Refractory Anemia with Excess of Blasts, 3599; Varying Probability of the Development of Acute Nonlymphoblastic Leukemia in Refractory Anemia Patients with an Excess of Blasts, 2196

Oh, S-K., Very, D. L., Walker, J., Raam, S., and Ju, S-T. An Analogy between Fetal Haptoglobin and a Potent Immunosuppressant in Cancer,

O'Hara, C. J. See Waibel, O'Hara, and Stahel, 3766 Ohara, Y. See Hayatsu, Kasai, Yokoyama, Miya-

zawa, Yamaizumi, Sato, Nishimura, Arimoto, Hayatsu, and Ohara, 791 Oh-hara, T. See Sugimoto, Oh-hara, Watanabe,

Saito, Yamori, and Tsuruo, 4396

Ohkawa, H., and Harigaya, K. Effect of Direct Cell-to-Cell Interaction between the KM-102 Clonal Human Marrow Stromal Cell Line and the HL-60 Myeloid Leukemic Cell Line on the Differentiation and Proliferation of the HL-60 Line, 2879

Ohkawa, K. See Tsukada, Ohkawa, and Hibi, 4293 Ohkubo, M. See Tokunaga, Nakamura, Sakata, Fujimori, Ohkubo, Sawada, and Sakiyama, 5616

Ohkubo, T. See Hiraoka, Ohkubo, and Fukuda, 5025

Ohnishi, K. See Pulciani, Sakano, Ohnishi, Anastasi, Pecorelli, Fiorucci, Oppi, Rossi, and Bonavida, 523

Ohno, Y. See Spriggs, Robbins, Ohno, and Kufe,

Ohsawa, F., and Natori, S. Analysis of Murine Cellular Receptors for Tumor-killing Factor, 42 Ohta, M. See Furukawa, Ohta, Kasahara, Miura, and Saito, 2589

Ohta, S. See Konno, Suzuki, Tadakuma, Kumai, Yasuda, Kubota, Ohta, Nagaike, Hosokawa, Ishibiki, Abe, and Saito, 4471

Ohuchi, N. See Thor, Muraro, Gorstein, Ohuchi, Viglione, Szpak, Johnston, and Schlom, 505

Ohuchi, N., Horan Hand, P., Merlo, G., Fujita, J., Mariani-Costantini, R., Thor, A., Nose, M., Callahan, R., and Schlom, J. Enhanced Expression of c-Ha-ras p21 in Human Stomach Adenocarcinomas Defined by Immunoassays Using Monoclonal Antibodies and in Situ Hybridization, 1413

Ohnchi, N., Wunderlich, D., Fujita, J., Colcher, D., Muraro, R., Nose, M., and Schlom, J. Differential Expression of Carcinoembryonic Antigen in Early Gastric Adenocarcinomas versus Benign Gastric Lesions Defined by Monoclonal Antibodies Reactive with Restricted Antigen Epitopes, 3565

Ohyashiki, J. H. See Ohyashiki, Ohyashiki, Sandberg, Minowada, and Kinniburgh, 3842

Ohyashiki, K., Ohyashiki, J. H., Sandberg, A. A., Minowada, J., and Kinniburgh, A. J. Loss of a Hu-ets-1 Allele in Human Leukemia Cell Lines ML-1, -2, and -3 with a Chromosome Change at 11q24, page 3842

Oie, H. K. See Park, Oie, Sugarbaker, Henslee,

Chen, Johnson, and Gazdar, 6710

Oikawa, T. See Chiba, Oikawa, Naiki, Takimoto, Miyoshi, Mizuno, Yamashina, Yamagiwa, and Kobayashi, 1815; Itaya, Yamagiwa, Okada, Oikawa, Kuzumaki, Takeichi, Hosokawa, and Kobayashi, 3136

Oka, T. See Fujimoto, Oka, and Morimoto, 1516 Oka, T. See Tsutsumi, Tsutsumi, and Oka, 4651

Okabe, I. See Kaneko, Kanda, Maseki, Sakurai, Tsuchida, Takeda, Okabe, and Sakurai, 311 Okabe, T. See Suzuki, Kim, Tahara, Okazaki

Okabe, T. See Suzuki, Kim, Tahara, Okazaki, Okabe, Wu, and Tanaka, 713

Okabe, T. See Watanabe, Okabe, Fujisawa, Takaku, and Fukayama, 960; Watanabe, Okabe, Fujisawa, Takaku, Hirohashi, and Shimosato, 826

Okada, F. See Itaya, Yamagiwa, Okada, Oikawa, Kuzumaki, Takeichi, Hosokawa, and Kobayashi, 3136; Morikawa, Okada, Hosokawa, and Kobayashi, 37

Okada, M. See Sugimoto, Sawada, Matsumura, Horii, Kemshead, Suzuki, Okada, Tagaya, and Hino, 5433

Okada, S. See Li, Okada, Hamazaki, Ebina, and Midorikawa, 1867

Okagaki, T. See Ostrow, Manias, Clark, Okagaki, Twiggs, and Faras, 649

Okamoto, H. See Itoh, Yokota, Takagishi, Hatta, and Okamoto, 5560

and Okamoto, 5560

Okamoto, M. Induction of Ocular Tumor by Nickel Subsulfide in the Japanese Common Newt, Cynops pyrrhogaster, 5213

Okamoto, N. See Matsunaga, Kuroki, Higuchi, Arakawa, Takakura, Okamoto, and Matsuoka, 56

Okamoto, S., Olson, A. C., and Vogler, W. R. Elimination of Leukemic Cells by the Combined Use of Ether Lipids in Vitro, 2599

Okamura, S. See Asano, Shibuya, Okamura, Yamaga, Otsuka, and Niho, 5647

Okano, S. See Ito, Ishikawa, Okano, Hattori, Fujii, Shinozawa, and Shibuya, 4146

Okazaki, K. See Suzuki, Kim, Tahara, Okazaki, Okabe, Wu, and Tanaka, 713

Okey, A. B. See Manchester, Gordon, Golas, Roberts, and Okey, 4861

Okin, E. See Ronai, Lambert, Johnson, Okin, and Weinstein, 4565

Oku, T. See Manda, Shimomura, Mukumoto, Kobayashi, Mizota, Hirai, Matsumoto, Oku, Nishigaki, Mori, and Kikuchi, 3707

Okubo, M. See Sato, Yagihashi, Okubo, Torigoe, Takahashi, Sato, and Kikuchi, 3147

Okuda, K., Fujimoto, I., Hanai, A., and Urano, Y. Changing Incidence of Hepatocellular Carcinoma in Japan, 4967

Okuda, S. See Iishi, Tatsuta, Baba, Okuda, and Taniguchi, 4890

Okuhara, M. See Izumi, Hirai, Hayashi, Konishi, Okuhara, Kohsaka, Aoki, and Yamamura, 1785 Okumura, K. See Kawata, Sekiya, Takamizawa, Muramatsu, and Okumura, 2288

Okutomi, T., Nakajima, Y., Sakakibara, F., Kawauchi, H., and Yamazaki, M. Induction of Release of Cytotoxin from Murine Bone Marrow Cells by an Animal Lectin. 47

Old, L. J. See Dracopoli, Alhadeff, Houghton, and Old, 3995; Mattes, Look, Furukawa, Pierce, Old, Lewis, and Lloyd, 6741; Mattes, Real, Furukawa, Old, and Lloyd, 6614; Rettig, Spengler, Chesa, Old, and Biedler, 1383

Oldfield, E. H., Clark, W. C., Dedrick, R. L.,

Egorin, M. J., Austin, H. A., DeVroom, H. D., Joyce, K. M., and Doppman, J. L. Reduced Systemic Drug Exposure by Combining Intraarterial *cis*-Diamminedichloroplatinum(II) with Hemodialysis of Regional Venous Drainage, 1962

Oldfield, F. S. J. See Hall, Inskip, Loik, Tomatis, Day, O'Conor, Bosch, Muir, Parkin, Muñoz, Greenwood, Whittle, Ryder, Oldfield, N'jie, Smith, and Coursaget, 5782

Oldham, F. B. See Case, Gams, Ervin, Boyd, and Oldham, 6393

Oldham, R. K. See Sivam, Pearson, Bohn, Oldham, Sadoff, and Morgan, 3169

Olea-Serrano, N. See Devleeschouwer, Legros, Olea-Serrano, Paridaens, and Leclercq, 5883 Oleinick, N. L. See Ramakrishnan, Chiu, and Oleinick, 2032

Oliff, A. See Lu, Hangoc, Oliff, Chen, Shen, and Broxmeyer, 4184

Dromeyer, 40-9 Olinski, R., Wedrychowski, A., Schmidt, W. N., Briggs, R. C., and Hnilica, L. S. *In Vivo* DNA-Protein Cross-Linking by cis- and trans-Diamminedichloroplatinum(II), 201

Olive, P. L. See Chaplin, Olive, and Durand, 597; Durand and Olive, 5303

Olsen, G. A. See Haleem, Kurtzberg, Olsen, Rhinehardt-Clark, Leslie, Ray, Smith, Peters, Haynes, and Bast, 4608; Peters, Henner, Grochow, Olsen, Edwards, Stanbuck, Stuart, Gockerman, Moore, Bast, Seigler, and Colvin, 6402

Olson, A. C. See Okamoto, Olson, and Vogler, 2599

Olson, E. B., Jr. See Keith, Olson, Wilson, and Jefcoate, 1878

Olson, K. D. See Riscoe, Schwamborn, Ferro, Olson, and Fitchen, 3830

Olsson, L. See Due, Eriksson, Sihm, and Olsson, 6697; Pettijohn, Stranahan, Due, Rønne, Sørensen, and Olsson, 1161

Olver, I. N. See Reece, Morris, Bishop, Olver, and Raghavan, 2996

Omar, R. A., Yano, S., and Kikkawa, Y. Antioxidant Enzymes and Survival of Normal and Simian Virus 40-transformed Mouse Embryo Cells after Hyperthermia, 3473

Omukai, Y., Nakamura, N., Hiraoka, D., Nishizawa, Y., Uchida, N., Noguchi, S., Sato, B., and Matsumoto, K. Growth-stimulating Effect of Pharmacological Doses of Glucocorticoid on Androgen-responsive Shionogi Carcinoma 115 in Vivo in Mice and in Cell Culture, 4329

Ono, M. See Sato, Fujii, Ono, Nomura, and Shizume, 6474

Ono, M. See Yasutake, Kuratomi, Ono, Masumi, and Kuwano, 4894

Onozaki, K., Tamatani, T., Hashimoto, T., and Matsushima, K. Growth Inhibition and Augmentation of Mouse Myeloid Leukemic Cel Line Differentiation by Interleukin 1, page 2397

Oomori, K. See Kikuchi, Kizawa, Oomori, Miyauchi, Kita, Sugita, Tenjin, and Kato, 592; Kikuchi, Oomori, Kizawa, Hirata, Kita, Miyauchi, and Kato, 6459

Oostendorp, T. See Broers, Rot, Oostendorp, Huysmans, Wagenaar, Wiersma-van Tilburg, Vooijs, and Ramaekers, 3225

Opfell, R. W. See Gordon, Kar, Opfell, and Wile, 5070

Oppi, C. See Pulciani, Sakano, Ohnishi, Anastasi, Pecorelli, Fiorucci, Oppi, Rossi, and Bonavida, 523

Orbach-Arbouys, S. See Bravo Cuellar, Scott Algara, Metzger, and Orbach-Arbouys, 3477

Ordinas, A. See Bastida, Almirall, Jamieson, and Ordinas, 1767

Orkin, S. H. See Vogelstein, Fearon, Hamilton, Preisinger, Willard, Michelson, Riggs, and Orkin, 4806

Orr, F. W. See Leroyer, Werner, Shaughnessy, Goddard, and Orr, 4771

Orth, D. N. See Stromberg, Hudgins, Dorman, Henderson, Sowder, Sherrell, Mount, and Orth, 1190

Osato, T. See Klein, Osato, and Purtilo, 918 Osborn, R. C. See Guzman, Osborn, Bartley, Imagawa, Asch, and Nandi, 275

Oseroff, A. R. See Ara, Aprille, Malis, Kane, Cincotta, Foley, Bonventre, and Oseroff, 6580;

Green, Boll, Parrish, Kochevar, and Oseroff,

Oshimura, M. See Gilmer, Lamb, Oshimura, and Barrett, 4663

Osman, A-M. M. A. See Benckhuijsen, Osman, Hillebrand, and Smets, 4814

Ossowski, L. See Mira-y-Lopez and Ossowski, 3558

Østerlind, K., Hansen, H. H., Dombernowsky, P., Hansen, M., and Andersen, P. K. Determinants of Complete Remission Induction and Maintenance in Chemotherapy with or without Irradiation of Small Cell Lung Cancer, 2733

Ostrow, R. S., Manias, D. A., Clark, B. A., Okagaki, T., Twiggs, L. B., and Faras, A. J. Detection of Human Papillomavirus DNA in Invasive Carcinomas of the Cervix by in Situ Hybridization, 649

Osuga, T. See Koyama, Mukai, Fukao, Arimura, Iwasaki, and Osuga, 4667

Ota, D. M See Grossie, Ota, Ajani, and Nishioka, 1836; Irimura, Ota, and Cleary, 881; Jones, Ota, Jackson, Jackson, Kemp, Anderson, Mc-Camant, and Bauman, 5224; Yamori, Kimura, Stewart, Ota, Cleary, and Irimura, 2741

Ota, T., Fujikawa-yamamoto, K., Zong, Z-p., Yamazaki, M., Odashima, S., Kitagawa, I., Abe, H., and Arichi, S. Plant-Glycoside Modulation of Cell Surface Related to Control of Differentiation in Cultured B16 Melanoma Cells, 3863

Otsuka, T. See Asano, Shibuya, Okamura, Yamaga, Otsuka, and Niho, 5647

Otsuka, Y. See Hori, Ehrke, Mace, Maccubbin, Doyle, Otsuka, and Mihich, 2793

Otto, U. See Knöfel, Otto, Baisch, and Klöppel, 221

Ottow, R. T. See Stevenson, Keenan, Woodhouse, Ottow, Miller, Steller, Foon, Abrams, Beman, Larson, and Sugarbaker, 6100

Ove, P. See Francavilla, Ove, Polimeno, Coetzee, Makowka, Rose, Van Thiel, and Starzl, 5600 Ovejera, A. See Gorelik, Ovejera, Shoemaker, Jar-

Ovejera, A. See Gorelik, Ovejera, Shoemaker, Jarvis, Alley, Duff, Mayo, Herberman, and Boyd, 5739

Overdijk, B. See Beem, Hillebrand, Benckhuijsen, and Overdijk, 3980

Owens, E. S. See Hiraga, Klubes, Owens, Cysyk, and Blasberg, 3296
 Owens, M. A. See Dressler, Seamer, Owens, Clark,

and McGuire, 5294

Oxenhandler, R. W. See Berkelhammer and Oxenhandler, 1251

Oyasu, R. See Hayashi, Noguchi, and Oyasu, 4560; Homma, Kakizoe, Samma, and Oyasu, 6176 Ozanne, C. See Willey, Grafstrom, Moser, Ozanne, Sundqvist, and Harris, 2045

Ozawa, T. See Ogawa, Kondo, Sugiyama, Ogawa, Satake, and Ozawa, 1239

Ozols, R. F. See Behrens, Hamilton, Masuda, Grotzinger, Whang-Peng, Louie, Knutsen, McKoy, Young, and Ozols, 414; FitzGerald, Bjorn, Ferris, Winkelhake, Frankel, Hamilton, Ozols, Willingham, and Pastan, 1407

P

Pacenti, L. See Terrana, Rusciano, and Pacenti, 3791

Paciucci, P. A., Keaveney, C., Cuttner, J., and Holland, J. F. Mitoxantrone, Vincristine, and Prednisone in Adults with Relapsed or Primarily Refractory Acute Lymphocytic Leukemia and Terminal Deoxynucleotidyl Transferase Positive Blastic Phase Chronic Myelocytic Leukemia, 5234

Page, R. L. See Thrall, Page, and McLeod, 5880 Pagnani, M. See Corallini, Pagnani, Viadana, Camellin, Caputo, Reschiglian, Rossi, Altavilla, Selvatici, and Barbanti-Brodano, 6671

Paietta, E. See Marcus, Dutcher, Paietta, Ciobanu, Strauman, Wiernik, Hutner, Frank, and Baker, 4208; Wiernik, Schwartz, Strauman, Dutcher, Lipton, and Paietta, 2486

Paietta, E., Hubbard, A. L., Wiernik, P. H., Diehl, V., and Stockert, R. J. Hodgkin's Cell Lectin: An Ectosialytransferase and Lymphocyte Agglutinant Related to the Hepatic Asialoglycoprotein Receptor, 2461

Painter, R. B., Young, B. R., and Kapp, L. N. Absence of DNA Overreplication in Chinese Hamster Cells Incubated with Inhibitors of DNA Synthesis, 5595

Pajak, T. See Coleman, Halsey, Cox, Hirst, Blaschke, Howes, Wasserman, Urtasun, Pajak, Hancock, Phillips, and Noll, 319 Pala, M. See Russo, Taningher, Pala, Pisano, Pe-

demonte, De Angeli, Carlone, Santi, and Parodi, 2866

Paladugu, R. R. See Hammond, Gabriel, Paladugu, Azumi, Hill, and Benfield, 5202

Palkonyay, L. See Sircar, Palkonyay, Rodrigues, Allaire, Horvath, Thirion, and Weber, 1339

Palladino, M. A., Jr., Srivastava, P. K., Oettgen, H. F., and DeLeo, A. B. Expression of a Shared Tumor-specific Antigen by Two Chemically Induced BALB/c Sarcomas, 5074

Pallud, C. See Perrot-Applanat, Groyer-Picard, Lorenzo, Jolivet, Hai, Pallud, Spyratos, and Milgrom, 2652

Palmer, J. O. See Bear, Clayman, Elbers, Limas, Wang, Stone, Gebhard, Prigge, and Palmer, 3856; Ratliff, Palmer, McGarr, and Brown, 1762

Palmer, L. See Davies, Weidema, Sandle, Palmer, Deschner, and DeCosse, 4646

Pan, J. See Hong, Pan, Dong, Ning, and Yang, 5048

Panasci, L. C. See Lazarus and Panasci, 5102

Pancino, G., Charpin, C., Calvo, F., Guillemin, M-C., and Roseto, A. A Novel Monoclonal Antibody (7B10) with Differential Reactivity between Human Mammary Carcinoma and Normal Breast, 4444

Panneerselvam, M., Bredehorst, R., and Vogel, C-W. Resistance of Human Melanoma Cells against the Cytotoxic and Complement-enhancing Activities of Doxorubicin, 4601

Paoletti, C. See Auclair, Pierre, Voisin, Pepin, Cros. Colas, Saucier, Verschuere, Gros, and Paoletti, 6254

Papahadjopoulos, D. See Berinstein, Matthay, Papahadjopoulos, Levy, and Sikic, 5954

Pappie, D. See van Maanen, de Vries, Pappie, van den Akker, Lafleur, Retèl, van der Greef, and Pinedo, 4658

Paquin, M. L. See Nagle, Ahmann, McDaniel, Paquin, Clark, and Celniker, 281

Pardee, A. B. Molecules Involved in Proliferation of Normal and Cancer Cells: Presidential Address, 1488. See also Boothman, Greer, and Pardee, 5361

Pardon, E. See Auerbach, Lu, Pardon, Gumkowski, Kaminska, and Kaminski, 1492

Parham, D. M. See Hazelton, Houghton, Parham, Douglass, Torrance, Holt, and Houghton, 4501; Horowitz, Parham, Douglass, Kun, Houghton, and Houghton, 499

Paridaens, R. See Devleeschouwer, Legros, Olea-Serrano, Paridaens, and Leclercq, 5883

Parikh, I. See Marchetti, Querzoli, Moncharmont, Parikh, Bagni, Marzola, Fabris, and Nenci, 2508

Parish, T. See Chalbos, Haagensen, Parish, and Rochefort, 2787

Park, J-G., Kramer, B. S., Steinberg, S. M., Carmichael, J., Collins, J. M., Minna, J. D., and Gazdar, A. F. Chemosensitivity Testing of Human Colorectal Carcinoma Cell Lines Using a Tetrazolium-based Colorimetric Assay, 5875

Park, J-G., Oie, H. K., Sugarbaker, P. H., Henslee, J. G., Chen, T-R., Johnson, B. E., and Gazdar, A. Characteristics of Cell Lines Established from Human Colorectal Carcinoma, 6710

Park, S. S. See Anderson, Ward, Park, Jones, Junker, Gelboin, and Rice, 6079; Ko, Park, Song, Patten, Tan, Hah, Yang, and Gelboin, 3101

Parker, J. W. See Epstein, Marder, Winter, Stathopoulos, Chen, Parker, and Taylor, 830

Parker, R. J., Keenan, A. M., Dower, S. K., Steller, M. A., Holton, O. D., Sieber, S. M., and Weinstein, J. N. Targeting of Murine Radiolabeled Monoclonal Antibodies in the Lymphatics, 2073 Parker, W. B., Kennedy, K. A., and Klubes, P.

Dissociation of 5-Fluorouracil-induced DNA Fragmentation from Either Its Incorporation into DNA or Its Cytotoxicity in Murine T-Lymphoma (S-49) Cells, 979

Parkin, M. See Hall, Inskip, Loik, Tomatis, Day, O'Conor, Bosch, Muir, Parkin, Muñoz, Greenwood, Whittle, Ryder, Oldfield, N'jie, Smith, and Coursaget, 5782

Parmiani, G. See Gambacorti-Passerini, Radrizzani, Erba, Fossati, and Parmiani, 2547

Parmley, R. T., Akin, D. T., Barton, J. C., Gilbert, C. S., and Kinkade, J. M., Jr. Cytochemistry and Ultrastructural Morphometry of Cultured HL60 Myeloid Leukemia Cells, 4932

Parodi, S. See Russo, Taningher, Pala, Pisano, Pedemonte, De Angeli, Carlone, Santi, and Parodi. 2866

Parrish, J. A. See Green, Boll, Parrish, Kochevar, and Oseroff, 410

Parry, D. M., Mulvihill, J. J., Miller, R. W., Berg, K., and Carter, C. L. Strategies for Controlling Cancer through Genetics, 6814, Meeting Report Parshad, R. See Gantt, Sanford, Parshad, Price, Peterson, and Rhim, 1390

Parsons, J. T. See Taparowsky, Heaney, and Par-

sons, 4125 Parsons, S. J. See Maxwell, Kurzrock, Parsons, Talpaz, Gallick, Kloetzer, Arlinghaus, Kouttab, Keating, and Gutterman, 1731

Parzefall, W. See Schröter, Parzefall, Schröter, and Schulte-Hermann, 80

Passera, P. See Alessandri, Filippeschi, Sinibaldi, Mornet, Passera, Spreafico, Cappa, and Gullino, 4243

Pastan, I. See FitzGerald, Bjorn, Ferris, Winkelhake, Frankel, Hamilton, Ozols, Willingham, and Pastan, 1407; Gamou, Hunts, Harigai, Hirobashi, Shimosato, Pastan, and Shimizu, 2668: Lvall, Hwang, Cardarelli, FitzGerald, Akiyama, Gottesman, and Pastan, 2961

Pataki, J. See Amin, Huie, Balanikas, Hecht, Pataki, and Harvey, 3613

Patch, C. T. See Akagi, Murai, Haddada, Levine, and Patch, 4086

Patel, R. See Balis, Patel, Luks, Doherty, Holcenberg, Tan, Reaman, Belasco, Ettinger, Zimm, and Poplack, 4973

Pathak, S. See Frost, Kerbel, Hunt, Man, and Pathak, 2690; Lee, Pathak, Hopwood, Tomasovic, Mullins, Baker, Spitzer, and Neidhart, 6349

Patierno, S. R., Tuscano, J. M., Kim, K. S., Landolph, J. R., and Lee, A. S. Increased Expression of the Glucose-regulated Gene Encoding the Mr. 78,000 Glucose-regulated Protein in Chemically Radiation-transformed C3H/10T1/2 Mouse Embryo Cells, 6220

Patil, P. See Stamato, Peters, Patil, Denko, Weinstein, and Giaccia, 1588

Patlak, C. S. See Blasberg, Nakagawa, Bourdon,

Groothuis, Patlak, and Bigner, 4432
Patten, C. J. See Ko, Park, Song, Patten, Tan, Hah, Yang, and Gelboin, 3101; Yoo, Cheung, Patten, Wade, and Yang, 3378; Yoo, Ning, Patten, and Yang, 992

Paul, E. See Barnekow, Paul, and Schartl. 235 Paul, R. D., and Lopez, D. M. Induction of "In-nocent Bystander" Cytotoxicity in Nonimmune Mice by Adoptive Transfer of L3T4+ Lyt-1+2-Mammary Tumor Immune T-Cells, 1105

Paulin, D. See Dellagi, Lipinski, Paulin, Portier, Lenoir, and Brouet, 1170

Pawluczyk, I. Z. A. See Byers, Pimm, Pawluczyk, Lee, Scannon, and Baldwin, 5277; Byers, Pimm, Scannon, Pawluczyk, and Baldwin, 5042

Pawson, T. See Auersperg, Pawson, Worth, and Weinmaster, 6341

Pazdur, R., Redman, B. G., Corbett, T., Phillips, M., and Baker, L. H. Phase I Trial of Spiromustine (NSC 172112) and Evaluation of Toxicity and Schedule in a Murine Model, 4213

Peacock, J. L. See Inculet, Stein, Peacock, Leskiw, Maher, Gorschboth, and Norton, 4746

Peacock, J. L., Gorschbeith, C. M., and Norton, J. A. Impact of Insulin on Doxorubicin-induced Rat Host Toxicity and Tumor Regression, 4318 Pearson, J. W. See Sivam, Pearson, Bohn, Oldham, Sadoff, and Morgan, 3169

Pecorelli, A. See Pulciani, Sakano, Ohnishi, Anastasi, Pecorelli, Fiorucci, Oppi, Rossi, and Bonavida, 523

Pedemonte, P. See Russo, Taningher, Pala, Pisano, Pedemonte, De Angeli, Carlone, Santi, and Parodi. 2866

Pedroso, P. See Weltman, Pedroso, Johnson, Davignon, Fast, and Leone, 5552

Pence, B. C. See Reiners, Pence, Barcus, and Cantu, 1775

Pence, B. C., and Reiners, J. J., Jr. Murine Epidermal Xanthine Oxidase Activity: Correlation with Degree of Hyperplasia Induced by Tumor Promoters, 6388

Penco, S. See Barbieri, Giuliani, Bordoni, Casazza, Geroni, Bellini, Suarato, Gioia, Penco, and Arcamone, 4001

Peng, Y-M. See Struck, Alberts, Horne, Phillips, Peng, and Roe, 2723

Penning, T. M. See Ivins and Penning 680 Pennington, K. See Tricot, Jayaram, Nichols, Pennington, Lapis, Weber, and Hoffman, 4988

Pennington, R. W. See Talmadge, Phillips, Schindler, Tribble, and Pennington, 5725; Talmadge, Tribble, Pennington, Phillips, and Wiltrout,

Pepin, O. See Auclair, Pierre, Voisin, Pepin, Cros, Colas, Saucier, Verschuere, Gros, and Paoletti, 6254

Pera, M. F., Friedlos, F., Mills, J., and Roberts, J. J. Inherent Sensitivity of Cultured Human Embryonal Carcinoma Cells to Adducts of cis-Diamminedichloroplatinum(II) on DNA, 6810

Peraino, C. See Hsieh, Hsiao, Peraino, Maronnot, and Weinstein, 3421; Russell, Staffeldt, Wright, Prapuolenis, Carnes, and Peraino, 1130

Perchellet, E. M. See Perchellet, Abney, Thomas, Guislain, and Perchellet, 477; Perchellet, Abney, Thomas, Perchellet, and Maatta, 6302

Perchellet, J-P., Abney, N. L., Thomas, R. M., Guislain, Y. L., and Perchellet, E. M. Effects of Combined Treatments with Selenium, Glutathione, and Vitamin E on Glutathione Peroxidase Activity, Ornithine Decarboxylase Induction, and Complete and Multistage Carcinogenesis in Mouse Skin, 477

Perchellet, J-P., Abney, N. L., Thomas, R. M., Perchellet, E. M., and Maatta, E. A. Inhibition of Multistage Tumor Promotion in Mouse Skin by Diethyldithiocarbamate, 6302

Peres, R., Betsholtz, C., Westermark, B., and Heldin, C-H. Frequent Expression of Growth Factors for Mesenchymal Cells in Human Mammary Carcinoma Cell Lines, 3425

Perez-Soler, R., Khokhar, A. R., and Lopez-Berestein, G. Treatment and Prophylaxis of Experimental Liver Metastases of M5076 Reticulosarcoma with cis-Bis-neodecanoato-trans-R,R-1,2diaminocyclohexaneplatinum(II) Encapsulated in Multilamellar Vesicles, 6462

Peries, J. See Vilette, Emanoil-Ravier, Buffe, Rimbaut, and Peries, 867

Perosa, F. See Kusama, Kageshita, Tsujisaki, Perosa, and Ferrone, 4312

Perrot-Applanat, M., Groyer-Picard, M-T., Lor-enzo, F., Jolivet, A., Hai, M. T. V., Pallud, C., Spyratos, F., and Milgrom, E. Immunocytochemical Study with Monoclonal Antibodies to Progesterone Receptor in Human Breast Tumors, 2652

Perruchoud, A. P. See Wieczorek, Sitaramam, Machleidt, Rhyner, Perruchoud, and Block,

Pertz, H. See Glatt, Eich, Pertz, Becker, and Oesch, 1811

Perussia, B. See Andrews, Trinchieri, Perussia, and Baglioni, 740; Trinchieri, Rosen, and Perussia, 2236

Peter, H. J. See Smeds, Peter, Jörtsö, Gerber, and Studer, 1646

Peters, B. See Stamato, Peters, Patil, Denko, Weinstein, and Giaccia, 1588

Peters, W. P. See Griswold, Trader, Frei, Peters, Wolpert, and Laster, 2323; Haleem, Kurtzberg, Olsen, Rhinehardt-Clark, Leslie, Ray, Smith, Peters, Havnes, and Bast, 4608

Peters, W. P., Henner, W. D., Grochow, L. B., Olsen, G., Edwards, S., Stanbuck, H., Stuart, A., Gockerman, J., Moore, J., Bast, R. C., Jr., Seigler, H. F., and Colvin, O. M. Clinical and Pharmacologic Effects of High Dose Single Agent Busulfan with Autologous Bone Marrow Support in the Treatment of Solid Tumors, 6402

Petersen, O. W., Høyer, P. E., and van Deurs, B. Frequency and Distribution of Estrogen Receptor-positive Cells in Normal, Nonlactating Hu-

man Breast Tissue, 5748

Petersen, O. W., and van Deurs, B. Preservation of Defined Phenotypic Traits in Short-Term Cultured Human Breast Carcinoma Derived Epithelial Cells, 856

Peterson, J. A. See Ceriani, Blank, and Peterson,

Peterson, W. D., Jr. See Gantt, Sanford, Parshad, Price, Peterson, and Rhim, 1390 Petrakis, N. L. See Gruenke, Wrensch, Petrakis,

Miike, Ernster, and Craig, 5483

Petrelli, N. See Manly, Petrelli, Anderson, Emrich, Herrera, and Mittelman, 6156

Petruzzelli, S. See De Flora, Petruzzelli, Camoirano, Bennicelli, Romano, Rindi, Ghelarducci, and Giuntini, 4740

Pettersson, M. See Nister, Wedell, Betsholtz, By water, Pettersson, Westermark, and Mark, 4953

water, Pettersson, Westermark, and Paria, 4752 Pettijohn, D. E., Stranahan, P. L., Due, C., Rønne, E., Sørensen, H. R., and Olsson, L. Glycopro-teins Distinguishing Non-Small Cell from Small Cell Human Lung Carcinoma Recognized by Monoclonal Antibody 43-9F, 1161

Pettit, G. R. See Dell'Aquila, Nguyen, Herald, Pettit, and Blumberg, 6006; Kiss, Deli, Shoji, Koeffler, Pettit, Vogler, and Kuo, 1302; Sako, Yuspa, Herald, Pettit, and Blumberg, 5445 Peyrat, J. P. See Bonneterre, Peyrat, Beuscart,

Lefebvre, and Demaille, 4724

Pezcoller, C. See Ponz de Leon, Roncucci, di Donato, Sacchetti, Pezcoller, Annoni, Bertani, Rebecchi, Balli, Galli, and Carulli, 305

Pharo, A. See Kvalheim, Fodstad, Pihl, Nustad, Pharo, Ugelstad, and Funderud. 846 Philip, I. See Lipinski, Braham, Philip, Wiels,

Philip, Goridis, Lenoir, and Tursz, 183 Philip, T. See Lipinski, Braham, Philip, Wiels, Philip, Goridis, Lenoir, and Tursz, 183 Phillips, D. H. See Bohr, Phillips, and Hanawalt,

Phillips, H. See Talmadge, Phillips, Schindler, Tribble, and Pennington, 5725; Talmadge, Tribble, Pennington, Phillips, and Wiltrout, 2563 Phillips, J. G. See Struck, Alberts, Horne, Phillips,

Peng, and Roe, 2723

Phillips, M. See Pazdur, Redman, Corbett, Phillips, and Baker, 4213

Phillips, T. L. See Coleman, Halsey, Cox, Hirst, Blaschke, Howes, Wasserman, Urtasun, Pajak, Hancock, Phillips, and Noll, 319 Piccione, D. See Reddy, Piccione, Takita, and

Bankert, 2456

Pidoux, E. See Bouizar, Rostène, Treilhou-Lahille, Pidoux, Milhaud, and Moukhtar, 3595

Pidoux, M. See Tyrrell and Pidoux, 1825 Pierce, V. K. See Mattes, Look, Furukawa, Pierce,

Old, Lewis, and Lloyd, 6741 Pierotti, M. A. See Borrello, Pierotti, Bongarzone, Donghi, Mondellini, and Della Porta, 75

Pierre, A. See Auclair, Pierre, Voisin, Pepin, Cros, Colas, Saucier, Verschuere, Gros, and Paoletti, 6254

Pietersz, G. A. See Smyth, Pietersz, and Mc-Kenzie, 62 Pigott, M. A. See Pruess-Schwartz, Baird, Yagi,

Jerina, Pigott, and Dipple, 4032

Pihl, A. See Godal, Fodstad, and Pihl, 6243; Kvalheim, Fodstad, Pihl, Nustad, Pharo, Ugelstad, and Funderud, 846

Pike, J. W. See Berger, Wilson, McClelland, Colston, Haussler, Pike, and Coombes, 6793

Pileri, A. See Ferrero, Pregno, Tarella, Ruscetti, Pileri, and Gallo, 6413

Pillwein, K., Jayaram, H. N., and Weber, G. Effect of Ischemia on Nucleosides and Bases in Rat Liver and Hepatoma 3924A, 3092

Pimm, M. V. See Byers, Pimm, Pawluczyk, Lee, Scannon, and Baldwin, 5277; Byers, Pimm, Scannon, Pawluczyk, and Baldwin, 5042 Pinedo, H. M. See van Hennik, van der Vijgh, Klein, Elferink, Vermorken, Winograd, and Pinedo, 6297; van Maanen, de Vries, Pappie, van den Akker, Lafleur, Retèl, van der Greef, and Pinedo, 4658

Pinter, C. D. See Sebolt, Scavone, Pinter, Hame-

lehle, Von Hoff, and Jackson, 4299
Pinto, A. See Fontana, Del Vecchio, Racioppi, Carbone, Pinto, Colletta, and Zappacosta, 4178 Pisano, V. See Russo, Taningher, Pala, Pisano, Pedemonte, De Angeli, Carlone, Santi, and Parodi 2866

Piskorska-Pliszczynska, J. See Romkes, Piskorska-Pliszczynska, Keys, Safe, and Fujita, 5108 Pitot, H. C. See Sawada, Staecker, and Pitot, 5665

Planas, A. T. See Graziano, Cowan, Carney, Bryke, Mitter, Johnson, Mark, Planas, Catino, Comis, and Poiesz, 2148

Plet, A., Evain-Brion, D., Gerbaud, P., and Anderson, W. B. Retinoic Acid-induced Rapid Loss of Nuclear Cyclic AMP-dependent Protein Kinase in Teratocarcinoma Cells, 5831

Pliner, L. See Heston, Yang, Pliner, Russo, and Covey, 3627

Ploem, J. S. See Rodenburg, Ploem-Zaaijer, Cor-nelisse, Mesker, Hermans, Heintz, Ploem, and Fleuren, 3938

Ploem-Zaaijer, J. J. See Rodenburg, Ploem-Zaaijer, Cornelisse, Mesker, Hermans, Heintz, Ploem, and Fleuren, 3938

Plowman, J., Harrison, S. D., Jr., Trader, M. W., Griswold, D. P., Jr., Chadwick, M., McComish, M. F., Silveira, D. M., and Zaharko, D. Preclinical Antitumor Activity and Pharmacological Properties of Deoxyspergualin, 685

Plumb, J. A. See Fearon, Plumb, Burns, and Cal-

man, 3684

Plunkett, W., Liliemark, J. O., Adams, T. M., Nowak, B., Estey, E., Kantarjian, H., and Keating, M. J. Saturation of 1-β-D-Arabinofuranosylcytosine 5'-Triphosphate Accumulation in Leukemia Cells during High-Dose 1-β-D-Arabi-

nofuranosylcytosine Therapy, 3005 Podo, F., Carpinelli, G., Di Vito, M., Giannini, M., Proietti, E., Fiers, W., Gresser, I., and Belardelli, F. Nuclear Magnetic Resonance Analysis of Tumor Necrosis Factor-induced Alterations of Phospholipid Metabolites and pH in Friend Leukemia Cell Tumors and Fibrosarcomas in Mice, 6481

Pogo, B. G-T. See Friend, Zajac-Kaye, Holland, and Pogo, 378

Poiesz, B. J. See Graziano, Cowan, Carney, Bryke, Mitter, Johnson, Mark, Planas, Catino, Comis, and Poiesz, 2148; Graziano, Lehr, Merl, Ehrlich, Moore, Hallinan, Hubbell, Davey, Vournakis, and Poiesz, 2468

Poirier, M. C. See Huitfeldt, Spangler, Baron, and Poirier, 2098; Reed, Litterst, Thill, Yuspa, and Poirier, 718

Poissonnier, B. See Hecquet, Vennin, Fournier, and Poissonnier, 6134

Polimeno, L. See Francavilla, Ove, Polimeno, Coetzee, Makowka, Rose, Van Thiel, and Starzl,

Poljak, L. G. See Gralla, Sasse-Dwight, and Poljak, 5092

Pollini, C. See Formelli, Carsana, and Pollini, 5401 Pomato, N. See Doyle, Koths, Brindley, Fong, Halenbeck, Ransom, Pomato, Cleveland, Mc-Cabe, and Hanna, 914

Pommier, Y. See Markovits, Pommier, Kerrigan, Covey, Tilchen, and Kohn, 2050 Ponti, M. See Catapano, Broggini, Erba, Ponti,

Mariani, Citti, and D'Incalci, 4884

Ponz de Leon, M., Roncucci, L., di Donato, P., Sacchetti, C., Pezcoller, C., Annoni, C., Bertani, C., Rebecchi, P., Balli, F., Galli, D., and Carulli, N. Fecal Neutral Steriods in Normal Conditions and in Patients with Polyps or Cancer of the Large Bowel, 305

Poplack, D. G. See Arndt, Colvin, Balis, Lester, Johnson, and Poplack, 5932; Balis, Patel, Luks, Doherty, Holcenberg, Tan, Reaman, Belasco, Ettinger, Zimm, and Poplack, 4973

Popp, J. A. See Conway, Neptun, Garvey, and Popp, 4795

Porath, J. See Andersson, Sulkowski, and Porath, 3624

Porter, C. W., McManis, J., Casero, R. A., and Bergeron, R. J. Relative Abilities of Bis(ethyl) Derivatives of Putrescine, Spermidine, and Spermine to Regulate Polyamine Biosynthesis and Inhibit L1210 Leukemia Cell Growth, 2821 Portier, M. M. See Dellagi, Lipinski, Paulin, Por-

tier, Lenoir, and Brouet, 1170

Poser, R. E. See Sirotnak, Poser, and Barrueco,

Poste, G. See Bugelski, Corwin, North, Kirsh, Nicolson, and Poste, 4141; Koestler, Johnson, Rieman, Dalton, Greig, and Poste, 2804 Poulin, L., Skalski, V., and Wainberg, M. A. Effect

of Phorbol Ester on Growth of Tumors Induced by Rous Sarcoma Virus and on pp60^{arc} Kinase Activity in These Tumors, 3637

Pour, P. M. See Tempero, Uchida, Takasaki, Burnett, Steplewski, and Pour, 5501

Pour, P. M., and Stepan, K. Induction of Prostatic Carcinomas and Lower Urinary Tract Neo-plasms by Combined Treatment of Intact and Castrated Rats with Testosterone Propionate and N-Nitrosobis(2-oxopropyl)amine, 5699 Povlishock, J. T. See Ellison, Povlishock, and Mer-

chant. 5765

Powe, J. See Takahashi, Herlyn, Atkinson, Powe,

Rodeck, Alavi, Bruce, and Koprowski, 3847
Powis, G., Hodnett, E. M., Santone, K. S., See, K.
L., and Melder, D. C. Role of Metabolism and Oxidation-Reduction Cycling in the Cytotoxicity of Antitumor Quinoneimines and Quinonediimines, 2363

Powles, T. J. See Coombes, Powles, Easton, Chilvers, Ford, Smith, McKinna, White, Bradbeer, Yarnold, Nash, Bettelheim, Dowsett, Gazet, and Investigators of the Collaborative Breast Cancer Project, 2494; Dowsett, Goss, Powles, Hutchinson, Brodie, Jeffcoate, and Coombes, 1957; McClelland, Berger, Wilson, Powles, Trott, Easton, Gazet, and Coombes, 6118

Pozzatti, R. See Garbisa, Pozzatti, Muschel, Saffiotti, Ballin, Goldfarb, Khoury, and Liotta,

Praissman, M. See Roebuck, Kaplita, Edwards, and Praissman, 1333 Prapuolenis, A. See Russell, Staffeldt, Wright,

Prapuolenis, Carnes, and Peraino, 1130 Prasad, K. V. S., Greer, W. L., Severini, A., and Kaplan, J. G. Increase in Intracellular Na*: Transmembrane Signal for Rejoining of DNA Strand Breaks in Proliferating Lymphocytes,

Prashad, N., Lotan, D., and Lotan, R. Differential Effects of Dibutyryl Cyclic Adenosine Monophosphate and Retinoic Acid on the Growth. Differentiation, and Cyclic Adenosine Monophosphate-binding Protein of Murine Neuroblastoma Cells, 2417

Pratt, C. B. See Goren, Wright, Pratt, Horowitz, Dodge, Viar, and Kovnar, 1457

Preat, V. See Harris, Preat, and Farber, 3954 Pregno, P. See Ferrero, Pregno, Tarella, Ruscetti, Pileri, and Gallo, 6413
Prehn, L. M. See Prehn and Prehn, 927
Prehn, R. T., and Prehn, L. M. The Autoimmune

Nature of Cancer, 927, Perspectives in Cancer

Research
Preis, P. N. See Sadée, Yu, Richards, Preis, Schwab, Brodsky, and Biedler, 5207
Preisinger, A. C. See Vogelstein, Fearon, Hamil-

ton, Preisinger, Willard, Michelson, Riggs, and Orkin, 4806

Preisler, H. D., Kinniburgh, A. J., Wei-Dong, G., and Khan, S. Expression of the Protooncogenes c-myc, c-fos, and c-fms in Acute Myelocytic Leukemia at Diagnosis and in Remission, 874

Preisler, H. D., Sato, H., Li, Y-Q., Stein, G., and Stein, J. Differing Patterns of Human Protooncogene Expression in Peripheral Blood and Bone Marrow Acute Leukemia Cells, 3747

Price, F. M. See Gantt, Sanford, Parshad, Price, Peterson, and Rhim, 1390

Price, J. E. See Johnson, Barth, Adams, Holman, Price, and Sautins, 1111

Prigge, W. See Bear, Clayman, Elbers, Limas, Wang, Stone, Gebhard, Prigge, and Palmer, 3856

Primus, F. J. See Fand, Sharkey, Primus, Cohen,

and Goldenberg, 2177; Schoentag, Primus, and Kuhns, 1695; Sharkey, Pykett, Siegel, Alger, Primus, and Goldenberg, 5672

Proctor, S. J. See Robson, Lewis, Wolf, Hayes,

Hall, Proctor, Harris, and Hickson, 6022

Proietti, E. See Podo, Carpinelli, Di Vito, Giannini, Proietti, Fiers, Gresser, and Belardelli,

Prokopczyk, B., Rivenson, A., Bertinato, P., Brun-nemann, K. D., and Hoffmann, D. 3-(Methylni-trosamino)propionitrile: Occurrence in Saliva of Betel Quid Chewers, Carcinogenicity, and DNA Methylation in F344 Rats, 467

Pruess-Schwartz, D. See Moore, Pruess-Schwartz, Mauthe, Gould, and Baird, 4402

-Schwartz, D., Baird, W. M., Yagi, H., Jerina, D. M., Pigott, M. A., and Dipple, A. Ster-eochemical Specificity in the Metabolic Activa-tion of Benzo(c)phenanthrene to Metabolites That Covalently Bind to DNA in Rodent Embryo Cell Cultures, 4032

Prusoff, W. H. See Lin and Prusoff, 394

Pugh, L. See Begleiter, Glazer, Israels, Pugh, and Johnston, 2498; Johnston, Pugh, and Begleiter,

Pujades, A. See Colomer, Vives-Corrons, Pujades,

and Bartrons, 1859 Pulciani, S., Sakano, T., Ohnishi, K., Anastasi, A. M., Pecorelli, A., Fiorucci, G., Oppi, C., Rossi, G. B., and Bonavida, B. Detection of a Trans forming Gene in Spontaneous Reticulum Cell Sarcoma of SJL/J Mice: Genetically Linked and Host-dependent Neoplasia, 523

Purdy, R. H. See Liehr, Purdy, Baran, Nutting, Colton, Randerath, and Randerath, 2583

Purtilo, D. T. See Klein, Osato, and Purtilo, 918 Puska, P. See Reddy, Sharma, Simi, Engle, Laakso, Puska, and Korpela, 644 Puz, C. See Sohn, Fiala, Puz, Hamilton, and Williams, 3123

Pykett, M. J. See Sharkey, Pykett, Siegel, Alger, Primus, and Goldenberg, 5672

Pylypiw, H. M., Jr. See Gombar, Pylypiw, and Harrington, 343

0

Quaranta, V. See Kajiji, Davčeva, and Quaranta,

Querzoli, P. See Marchetti, Querzoli, Moncharmont, Parikh, Bagni, Marzola, Fabris, and Nenci, 2508 Quinn, B. A., See Wollenberg, Semple, Quinn, and

Hayes, 6595

R

Raam, S. See Oh, Very, Walker, Raam, and Ju,

Rabin, H. See Ho, Kato, Durda, Murray, Wolfe, Rabin, and Carney, 241

Rabinovitch, P. S. See Kavanagh, Martin, El-Fouly, Trosko, Chang, and Rabinovitch, 6046

Rabinowich, H., Cohen, R., Bruderman, I., Steiner. Z., and Klajman, A. Functional Analysis of Mononuclear Cells Infiltrating into Tumors: Lysis of Autologous Human Tumor Cells by

Cultured Infiltrating Lymphocytes, 173
Racioppi, L. See Fontana, Del Vecchio, Racioppi,
Carbone, Pinto, Colletta, and Zappacosta, 4178 Radrizzani, M. See Gambacorti-Passerini, Radrizzani, Erba, Fossati, and Parmiani, 2547

Radzioch, D. See Tonini, Radzioch, Gronberg, Clayton, Blasi, Benetton, and Varesio, 4544

Raffeld, M., Wright, J. J., Lipford, E., Cossman, J., Longo, D. L., Bakhshi, A., and Korsmeyer, S. J. Clonal Evolution of t(14;18) Follicular Lymphomas Demonstrated by Immunoglobulin Genes and the 18q21 Major Breakpoint Region,

Ragab, A. H. See Findley, Steuber, Krischer, and Ragab, 4225 Raghavan, D. See Reece, Morris, Bishop, Olver,

and Raghavan, 2996

Raguet, S. S. See Weisman, Raguet, and Kelly,

Rahbar, S. See Carr, Rahbar, Doroshow, Blayney, Goldberg, Leong, and Asmeron, 4199
Rahija, R. J. See Kaufmann, Rahija, MacKenzie,

and Kaufman, 3771

Rahman, S. M. J. See Nagase, Rahman, Yokochi, Kawashima, Isobe, Yoshida, Nagura, and Nakashima, 6494

Rahmani, R., Bruno, R., Iliadis, A., Favre, R., Just, S., Barbet, J., and Cano, J-P. Clinical Pharmacokinetics of the Antitumor Drug Navelbine (5'-Noranhydrovinblastine), 5796

mi, S. See Columbano, Ledda-Columbano, Lee, Rajalakshmi, and Sarma, 5557 Rajaraman, S. See Gupta, Rajaraman, Gadson,

and Costanzi, 5194

Raju, N. R. See Marushige, Raju, Marushige, and Koestner, 4109

Ramaekers, F. C. S. See Broers, Rot, Oostendorp, Huysmans, Wagenaar, Wiersma-van Tilburg, Vooijs, and Ramaekers, 3225

Ramakrishnan, N., Chiu, S-m., and Oleinick, N. L. Yield of DNA-Protein Cross-Links in γ-Irradiated Chinese Hamster Cells, 2032

Ramamurthy, N. S. See Zucker, Wieman, Lysik, Wilkie, Ramamurthy, Golub, and Lane, 1608 Ramsay, N. K. C. See Kohn, Landkamer, Manthey,

Ramsay, and Sladek, 3180
Randerath, E. See Liehr, Hall, Avitts, Randerath, and Randerath, 2156; Liehr, Purdy, Baran, Nutting, Colton, Randerath, and Randerath, 2583

Randerath, K. See Liehr, Hall, Avitts, Randerath, and Randerath, 2156; Liehr, Purdy, Baran, Nutting, Colton, Randerath, and Randerath, 2583

Ranken, R., White, C. F., Gottfried, T. G., Yonkovich, S. J., Blazek, B. E., Moss, M. S., Fee, W. E., Jr., and Liu, Y-S. V. Reactivity of Monoclonal Antibody 17.13. with Human Squamous Cell Carcinoma and Its Application to Tumor Diagnosis, 5684

Rankin, E. M. See Kerr, Kaye, Cassidy, Bradley, Rankin, Adams, Setanoians, Young, Forrest,

Soukop, and Clavel, 6776

Ransom, J. H. See Doyle, Koths, Brindley, Fong, Halenbeck, Ransom, Pomato, Cleveland, Mc-Cabe, and Hanna, 914

Rao, K. V. S., Williams, R. E., and Fox, C. F. Altered Glucocorticoid Binding and Action in Response to Epidermal Growth Factor in HBL100 Cells, 5888

Rao, L. N. See Murthy, Rao, Khandekar, and Scanlon, 774

Rao, M. S. See Wirth, Rao, and Evarts, 2839 Rao, M. S., Mangino, M. M., Usman, M. I., Sub-barao, V., Scarpelli, D. G., Reddy, M. K., and Reddy, J. K. Tannic Acid-induced Nucleolar Changes in Hepatocytes Transplanted into Syngeneic or Xenogeneic Host and in Hepatocytes Maintained in Primary Culture, 1657

Raper, S. E. See Bresalier, Hujanen, Raper, Roll, Itzkowitz, Martin, and Kim, 1398
Rapoport, S. I. See Greig, Momma, Sweeney,

Smith, and Rapoport, 1571

Rappaport, I., Alterman, A. L., Braverman, S., and Stackpole, C. W. Syngeneic Monoclonal Anti-bodies to B16 Melanoma Viral Antigens, 5391 Raptis, G. See Kane, Roth, Raptis, Schreiber, and

Waxman, 6444 Rasmussen, B. B. See Thorpe, Rose, Rasmussen,

Mouridsen, Bayer, and Keiding, 6126 Raso, V. See Griffin, Richardson, Houston, Le-

Page, Bogden, and Raso, 4266 Ratiff, T. L., Palmer, J. O., McGarr, J. A., and Brown, E. J. Intravesical *Bacillus Calmette-Guérin* Therapy for Murine Bladder Tumors: Initiation of the Response by Fibronectin-mediated Attachment of Bacillus Calmette-Guerin, 1762

Ravindranath, M. H. See Tsuchida, Ravindranath, Saxton, and Irie, 1278

Ray, L. See Haleem, Kurtzberg, Olsen, Rhine hardt-Clark, Leslie, Ray, Smith, Peters, Haynes, and Bast, 4608

Ray, P. S. See Rubenstein, Shaw, McKiel, Ray, and Guinan, 178

Ray, W. A. See Kaisary, Smith, Jaczq, McAllister, Wilkinson, Ray, and Branch, 5488

Real, F. X. See Mattes, Real, Furukawa, Old, and Lloyd, 6614

Reale, F. R., Griffin, T. W., Compton, J. M., Graham, S., Townes, P. L., and Bogden, A. Characterization of a Human Malignant Mesothelioma Cell Line (H-MESO-1): A Binhasic Solid and Ascitic Tumor Model, 3199

Reaman, G. H. See Balis, Patel, Luks, Doherty, Holcenberg, Tan, Reaman, Belasco, Ettinger, Zimm, and Poplack, 4973; Merritt, Casper,

Lauer, and Reaman, 1724 Rearick, J. I. See Jetten, Anderson, Deas, Kage chika, Lotan, Rearick, and Shudo, 3523

Reba, R. C. See McManaway, Jagoda, Kasid, Eckelman, Francis, Larson, Gibson, Reba, and Lippman, 2945

Rebecchi, P. See Ponz de Leon, Roncucci, di Donato, Sacchetti, Pezcoller, Annoni, Bertani, Rebecchi, Balli, Galli, and Carulli, 305

Reddel, R. R. See Gerwin, Lechner, Reddel, Rober's, Robbins, Gabrielson, and Harris, 6180

Reddel, R. R., and Sutherland, R. L. Effects of Pharmacological Concentrations of Estrogens on Proliferation and Cell Cycle Kinetics of Human Breast Cancer Cell Lines in Vitro, 5323 Reddy, A. L., Caldwell, M., and Fialkow, P. J.

Sequential Studies of Skin Tumorigenesis in Phosphoglycerate Kinase Mosaic Mice: Effect of Resumption of Promotion on Regressed Papillomas, 1947

Reddy, B. S., Maruyama, H., and Kelloff, G. Doserelated Inhibition of Colon Carcinogenesis by Dietary Piroxicam, a Nonsteroidal Antiinflam matory Drug, during Different Stages of Rat Colon Tumor Development, 5340

Reddy, B. S., Sharma, C., Simi, B., Engle, A., Laakso, K., Puska, P., and Korpela, R. Metabolic Epidemiology of Colon Cancer: Effect of Dietary Fiber on Fecal Mutagens and Bile Acids in Healthy Subjects, 644

Reddy, B. S., Sugie, S., Maruyama, H., El-Bayoumy, K., and Marra, P. Chemoprevention of Colon Carcinogenesis by Dietary Organoselenium, Benzylselenocyanate, in F344 Rats, 5901

Reddy, B. S., Wang, C.X., and Maruyama, H. Effect of Restricted Caloric Intake on Azoxymethane-induced Colon Tumor Incidence in Male F344 Rats, 1226

Reddy, J. K. See Rao, Mangino, Usman, Subbarao, Scarpelli, Reddy, and Reddy, 1657
Reddy, M. K. See Rao, Mangino, Usman, Sub-

barao, Scarpelli, Reddy, and Reddy, 1657 Reddy, S., Piccione, D., Takita, H., and Bankert,

R. B. Human Lung Tumor Growth Established in the Lung and Subcutaneous Tissue of Mice with Severe Combined Immunodeficiency, 2456 Redford, J. See Howell, Harland, Barnes, Hay-

ward, Redford, Swindell, and Sellwood, 296 Redman, B. G. See Pazdur, Redman, Corbett, Phillips, and Baker, 4213

Reece, P. A., Morris, R. G., Bishop, J. F., Olver, I. N., and Raghavan, D. Pharmacokinetics of Tri-metrexate Administered by Five-Day Continuous Infusion to Patients with Advanced Cancer,

Reed, E., Litterst, C. L., Thill, C. C., Yuspa, S. H., and Poirier, M. C. cis-Diamminedichloropla-tinum(II)-DNA Adduct Formation in Renal, Gonadal, and Tumor Tissues of Male and Female Rats, 718

Rehm, S. See Waalkes, Rehm, Kasprzak, and Issaq, 2445

negger, G., Hetzel, H., Fuchs, D., Fuith, L. C Hausen, A., Werner, E. R., and Wachter, H. Clinical Significance of Neopterin for Prognosis and Follow-up in Ovarian Cancer, 4977

Reiners, J. J., Jr. See Pence and Reiners, 6388 Reiners, J. J., Jr., Pence, B. C., Barcus, M. C. S. and Cantu, A. R. 12-O-Tetradecanoylphorbol-13-acetate-dependent Induction of Xanthine Dehydrogenase and Conversion to Xanthine Oxidase in Murine Epidermis, 1775

Reinholt, F. P. See Brosjö, Bauer, Broström, Nilsson, Reinholt, and Tribukait, 258

Reisfeld, R. A. See Mujoo, Cheresh, Yang, and Reisfeld, 1098

Reiss, M., and Sartorelli, A. C. Regulation of Growth and Differentiation of Human Keratinocytes by Type β Transforming Growth Factor and Epidermal Growth Factor, 6705

Relf, M. G. See Thorpe, Wallace, Knowles, Relf, Brown, Watson, Knyba, Wawrzynczak, and Blakey, 5924

Remack, J. S. See Brent, Lestrud, Smith, and Remack, 3384; Brent, Remack, and Smith, 6185 Remick, S. See Trump, Tutsch, Willson, Remick,

Simon, Alberti, Grem, Koeller, and Tormey,

Reschiglian, P. See Corallini, Pagnani, Viadana, Camellin, Caputo, Reschiglian, Rossi, Altavilla, Selvatici, and Barbanti-Brodano, 6671

Retèl, J. See van Maanen, de Vries, Pappie, van den Akker, Lafleur, Retèl, van der Greef, and

Pinedo, 4658

Retsky, M. W., Wardwell, R. H., Swartzendruber, D. E., and Headley, D. L. Prospective Computerized Simulation of Breast Cancer: Comparison of Computer Predictions with Nine Sets of Biological and Clinical Data, 4982

Rettig, W. J., Spengler, B. A., Chesa, P. G., Old, L. J., and Biedler, J. L. Coordinate Changes in Neuronal Phenotype and Surface Antigen Expression in Human Neuroblastoma Cell Var-

iants, 1383

Reubi, J. C., Lang, W., Maurer, R., Koper, J. W., and Lamberts, S. W. J. Distribution and Biochemical Characterization of Somatosatin Receptors in Tumors of the Human Central Nervous System, 5758

Reubi, J. C., Maurer, R., von Werder, K., Torhorst, J., Klijn, J. G. M., and Lamberts, S. W. J. Somatostatin Receptors in Human Endocrine Tumors, 551

Revnders, M. M. J. See Schutte, Revnders, Wiggers, Arends, Volovics, Bosman, and Blijham,

Reynolds, J. C. See Colcher, Esteban, Carrasquillo, Sugarbaker, Reynolds, Bryant, Larson, and Schlom, 1185, 4218; Eger, Covell, Carrasquillo, Abrams, Foon, Reynolds, Schroff, Morgan, Larson, and Weinstein, 3328; Keenan, Weinstein, Carrasquillo, Bunn, Reynolds, Foon, Smarte, Ghosh, Feika, Larson, and Mulshine, 6093

Reynolds, M. T. See Creasey, Doyle, Reynolds, Jung, Lin, and Vitt, 145

Reynolds, S. H. See Stowers, Glover, Reynolds, Boone, Maronpot, and Anderson, 3212

Reynolds, V. L., DiPietro, M., Lebovitz, R. M., and Lieberman, M. W. Inherent Tumorigenic and Metastatic Properties of Rat-1 and Rat-2 Cells, 6384

Reznikoff, C. A. See Christian, Loretz, Oberley, and Reznikoff, 6066; Messing and Reznikoff,

Rhee, J. G. See Song, Lee, Hasegawa, Rhee, and Levitt, 442

Rhee, J. G., Schuman, V. L., Song, C. W., and Levitt, S. H. Difference in the Thermotolerance of Mouse Mammary Carcinoma Cells in Vivo and in Vitro, 2571

Rhee, M. See Galivan, Nimec, and Rhee, 5256 Rhim, J. S. See Gantt, Sanford, Parshad, Price, Peterson, and Rhim, 1390

Rhinehardt-Clark, A. See Haleem, Kurtzberg, Olsen, Rhinehardt-Clark, Leslie, Ray, Smith, Peters, Haynes, and Bast, 4608

Rhyner, K. See Wieczorek, Sitaramam, Machleidt, Rhyner, Perruchoud, and Block, 6407

Rice, J. E., Weyand, E. H., Geddie, N. G., DeFloria, M. C., and LaVoie, E. J. Identification of Tumorigenic Metabolites of Benzolilfluoranthene Formed in Vivo in Mouse Skin, 6166

Rice, J. M. See Anderson, Ward, Park, Jones, Junker, Gelboin, and Rice, 6079; Kaufmann, Rice, Wenk, Devor, and Kaufman, 1263

Richards, M. L. See Sadée, Yu, Richards, Preis, Schwab, Brodsky, and Biedler, 5207 Richardson, C. See Griffin, Richardson, Houston,

LePage, Bogden, and Raso, 4266 Richardson, F. C. See Boucheron, Richardson,

Morgan, and Swenberg, 1577
Richardson, J. M., Morla, A. O., and Wang, J. Y. J. Reduction in Protein Tyrosine Phosphorylation during Differentiation of Human Leukemia Cell Line K-562, page 4066

Richon, V. M., Schulte, N., and Eastman, A. Mul-tiple Mechanisms of Resistance to cis-Diamminedichloroplatinum(II) in Murine Leukemia L1210 Cells, 2056

Richtsmeier, W. J., Dauchy, R., and Sauer, L. A.

In Vivo Nutrient Uptake by Head and Neck Cancers, 5230

Riebe, M. See Emura, Mohr, Riebe, Aufderheide,

and Dungworth, 1155 Rieber, M., Gross, A. and Rieber, M. S. Relationship of a Mr 140 Fibronectin Receptor and Other Adhesion-related Glycoproteins to Tumor Cell-Cell Interaction, 5127

Rieber, M. S. See Rieber, Gross, and Rieber, 5127 Rieman, D. See Koestler, Johnson, Rieman, Dalton, Greig, and Poste, 2804

Riethmüller, G. See Lehmann, Holzmann, Breitbart, Schmiegelow, Riethmüller, and Johnson,

Rifkind, R. A. See Marks, Sheffery, and Rifkind,

Riggs, A. D. See Vogelstein, Fearon, Hamilton, Preisinger, Willard, Michelson, Riggs, and Orkin, 4806

Riggs, C. W. See Lijinsky, Kovatch, and Riggs, 3968; Wade, Yang, Metral, Roman, Hrabie, Riggs, Anjo, Keefer, and Mico, 3373

Rijksen, G. See Staal, Kalff, Heesbeen, van Veelen, and Rijksen, 5047

Rijnsent, A. See Stukart, Rijnsent, and Roos, 3880 Rimbaut, C. See Vilette, Emanoil-Ravier, Buffe, Rimbaut, and Peries, 867

Rindi, M. See De Flora, Petruzzelli, Camoirano, Bennicelli, Romano, Rindi, Ghelarducci, and Giuntini, 4740

Rinehart, J. J., Young, D., Laforge, J., Colborn, D., and Neidhart, J. A. Phase I/II Trial of Interferon-β-Serine in Patients with Renal Cell Carcinoma: Immunological and Biological Effects,

Ringborg, U. See Hansson, Lewensohn, Ringborg, and Nilsson, 2631

Riscoe, M. K., Schwamborn, J., Ferro, A. J., Olson, K. D., and Fitchen, J. H. Inhibition of Growth but not Differentiation of Normal and Leukemic Myeloid Cells by Methylthioadenosine, 3830

Riss, T. L., and Sirbasku, D. A. Growth and Continuous Passage of COMMA-D Mouse Mammary Epithelial Cells in Hormonally Defined Serum-free Medium, 3776

Ritchie, J., Jr. See Goldstein, Gockerman, Krishnan, Ritchie, Tso, Hood, Ellinwood, and Laszlo,

Ritter, C., Rutman, R. J., and Goldstein, N. O. Modulation of the Cellular Toxicity of Nitrogen Mustard in Murine Cells, 472

Ritter, M. A. See Courtenay-Luck, Epenetos, Winearls, and Ritter, 4520 Riva, A. See Capranico, Riva, Tinelli, Dasdia, and

Zunino, 3752 Rivenson, A. See Prokopczyk, Rivenson, Bertinato, Brunnemann, and Hoffmann, 467

Rivera, S., López-Soriano, F. J., A.cón-Bieto, J., and Argiles, J. M. Blood Amino Acid Compartmentation in Mice Bearing Lewis Lung Carcinoma, 5644

Rizzino, A. Appearance of High Affinity Receptors for Type β Transforming Growth Factor during Differentiation of Murine Embryonal Carcinoma Cells, 4386

Rizzoli, R. See Kozak, Rizzoli, Trechsel, and Fleisch, 6193

Robb, L. See Labateya, Thomson, Durko, Shenouda, Robb, and Scanzano, 1058 Robbins, G. See Spriggs, Robbins, Ohno, and Kufe,

6532 Robbins, K. C. See Gerwin, Lechner, Reddel, Roberts, Robbins, Gabrielson, and Harris, 6180

Roberts, A. B. See Gerwin, Lechner, Reddel, Roberts, Robbins, Gabrielson, and Harris, 6180

Roberts, E. A. See Manchester, Gordon, Golas, Roberts, and Okey, 4861 Roberts, J. J. See Pera, Friedlos, Mills, and Rob-

erts, 6810

Roberts, J. J., and Friedlos, F. Differential Toxicity of cis- and trans-Diamminedichloroplatinum(II) toward Mammalian Cells: Lack of Influence of Any Difference in the Rates of Loss of Their DNA-bound Adducts, 31

Roberts, K., Lotze, M. T., and Rosenberg, S. A. Separation and Functional Studies of the Hu-

man Lymphokine-activated Killer Cell, 4366 Roberts, W. G. See Nelson, Roberts, and Berns, 4681

Robey, W. G. See Nara, Dunlop, Robey, Callahan, and Fischinger, 667

Robichaud, N. See Fram, Robichaud, Bishov, and Wilson, 3360

Robins, H. I. See Cohen and Robins, 4335 Robins, R. K. See Saunders, Tan, Spindler, and

Robins, 1022 Robinson, D. See Rozhin, Robinson, Stevens, Lah,

Honn, Ryan, and Sloane, 6620

Robinson, S. P., and Jordan, V. C. Reversal of the Antitumor Effects of Tamoxifen by Progesterone in the 7,12-Dimethylbenzanthracene-in-duced Rat Mammary Carcinoma Model, 5386

Robson, C. N., Hoban, P. R., Harris, A. L., and Hickson, I. D. Cross-Sensitivity to Topoisomerase II Inhibitors in Cytotoxic Drug-hypersen-

sitive Chinese Hamster Ovary Cell Lines, 1560 Robson, C. N., Lewis, A. D., Wolf, C. R., Hayes, J. D., Hall, A., Proctor, S. J., Harris, A. L., and Hickson, I. D. Reduced Levels of Drug-induced DNA Cross-Linking in Nitrogen Mustard-re-sistant Chinese Hamster Ovary Cells Expressing Elevated Glutathione S-Transferase Activity,

Roche, J. See Hnatowich, Gionet, Rusckowski, Siebecker, Roche, Shealy, Mattis, Wilson, Hunter, Griffin, and Doherty, 6111

Rochefort, H. See Bardon, Vignon, Montcourrier, and Rochefort, 1441; Chalbos, Haagensen, Parish, and Rochefort, 2787

Rockwell, S. See Keyes, Rockwell, and Sartorelli,

Rodan, G. A. See Rodan, Imai, Thiede, Weso-lowski, Thompson, Bar-Shavit, Shull, Mann, and Rodan, 4961

Rodan, S. B., Imai, Y., Thiede, M. A., Wesolowski, G., Thompson, D., Bar-Shavit, Z., Shull, S., Mann, K., and Rodan, G. A. Characterization of a Human Osteosarcoma Cell Line (Saos-2) with Osteoblastic Properties, 4961

Rodeck, U. See Basu, Murthy, Rodeck, Herlyn, Mattes, and Das, 2531; Herlyn, Rodeck, Mancianti, Cardillo, Lang, Ross, Jambrosic, and Koprowski, 3057; Takahashi, Herlyn, Atkinson, Powe, Rodeck, Alavi, Bruce, and Koprowski,

Rodeck, U., Herlyn, M., Herlyn, D., Molthoff, C., Atkinson, B., Varello, M., Steplewski, Z., and Koprowski, H. Tumor Growth Modulation by a Monoclonal Antibody to the Epidermal Growth Factor Receptor: Immunologically Mediated and Effector Cell-independent Effects, 3692

Rodenburg, C. J., Ploem-Zaaijer, J. J., Cornelisse, C. J., Mesker, W. E., Hermans, J., Heintz, P. A. M., Ploem, J. S., and Fleuren, G. J. Use of DNA Image Cytometry in Addition to Flow Cytometry for the Study of Patients with Advanced Ovarian Cancer, 3938

Roder, J. C. See Gitelman, Dexter, and Roder.

Rodrigues, M. See Sircar, Palkonyay, Rodrigues, Allaire, Horvath, Thirion, and Weber, 1339

Roe, D. J. See Struck, Alberts, Horne, Phillips, Peng, and Roe, 2723

Roebuck, B. D. See Kensler, Egner, Dolan, Groopman, and Roebuck, 4271
Roebuck, B. D., Kaplita, P. V., Edwards, B. R., and

Praissman, M. Effects of Dietary Fats and Soybean Protein on Azaserine-induced Pancreatic Carcinogenesis and Plasma Cholecystokinin in the Rat, 1333

Roerdink, F. H. See Storm, Roerdink, Steerenberg, de Jong, and Cromelin, 3366
Rofstad, E. K., Wahl, A., and Brustad, T. Radiation

Sensitivity in Vitro of Cells Isolated from Human Tumor Surgical Specimens, 106

Roghmann, M-C., Skinner, K. A., and Hilf, R. Effects of Estradiol and Tamoxifen on Creatine Kinase in Rodent Mammary Carcinomas, 1348 Roll, F. J. See Bresalier, Hujanen, Raper, Roll, Itzkowitz, Martin, and Kim, 1398

Roman, J. See Haim, Nemec, Roman, and Sinha, 5835

Roman, J. M. See Wade, Yang, Metral, Roman, Hrabie, Riggs, Anjo, Keefer, and Mico, 3373

Romano, M. See De Flora, Camoirano, Romano, Astengo, Cesarone, and Millman, 4052; De Flora, Petruzzelli, Camoirano, Bennicelli, Romano, Rindi, Ghelarducci, and Giuntini, 4740 Romijn, J. C. See Haegele, Splinter, Romijn,

Schechter, and Sjoerdsma, 890

Romkes, M., Piskorska-Pliszczynska, J., Keys, B., Safe, S., and Fujita, T. Quantitative Structure-Activity Relationships: Analysis of Interactions of 2,3,7,8-Tetrachlorodibenzo-p-dioxin and 2-Substituted Analogues with Rat, Mouse, Guinea Pig, and Hamster Cytosolic Receptor, 5108

Ronai, Z. A., Lambert, M. E., Johnson, M. D., Okin, E., and Weinstein, I. B. Induction of Asynchronous Replication of Polyoma DNA in Rat Cells by Ultraviolet Irradiation and the Effects of Various Inhibitors, 4565

Roncucci, L. See Ponz de Leon, Roncucci, di Donato, Sacchetti, Pezcoller, Annoni, Bertani, Rebecchi, Balli, Galli, and Carulli, 305

Roneker, C. See Tavares, Roneker, Johnston, Lehrman, and de Noronha, 3190 Rønne, E. See Pettijohn, Stranahan, Due, Rønne,

Sørensen, and Olsson, 1161 Roos, D. See de Korte, Haverkort, de Boer, van

Gennip, and Roos, 1841

Roos, E. See Collard, Schijven, and Roos, 754; Collard, van de Poll, Scheffer, Roos, Hopman. Geurts van Kessel, and van Dongen, 6666; Stukart, Rijnsent, and Roos, 3880

Roos, E., and Van de Pavert, I. V. Inhibition of Lymphoma Invasion and Liver Metastasis Formation by Pertussis Toxin, 5439

Rose, C. See Thorpe, Rose, Rasmussen, Mouridsen, Bayer, and Keiding, 6126

Rose, J. See Francavilla, Ove, Polimeno, Coetzee, Makowka, Rose, Van Thiel, and Starzl, 5600 Rosen, M. See Trinchieri, Rosen, and Perussia,

Rosen, N. See Fairchild, Ivy, Kao-Shan, Whang-Peng, Rosen, Israel, Melera, Cowan, and Gold-

smith, 5141 Rosen, S. T. See Zimmer, Kazikiewicz, Rosen, and Spies, 1691

Rosenau, W. See Grady, Schwab, and Rosenau, 2931

Rosenberg, S. A. See Eisenthal, Lafreniere, Lefor, and Rosenberg, 2771; Lotze, Custer, Sharrow, Rubin, Nelson, and Rosenberg, 2188; Roberts, Lotze, and Rosenberg, 4366; Shu, Chou, and Rosenberg, 1354

Rosenberger, A. L. See Sunkara and Rosenberger,

Rosenblum, M. See Blick, Sherwin, Rosenblum, and Gutterman, 2986

Rosenblum, M. L. See Ali-Osman, Giblin, Dougherty, and Rosenblum, 3718; Rutka, Giblin, Apodaca, DeArmond, Stern, and Rosenblum, 3515

Rosendorf, L. L. See Spitler, del Rio, Khentigan, Wedel, Brophy, Miller, Harkonen, Rosendorf, Lee, Mischak, Kawahata, Stoudemire, Fradkin, Bautista, and Scannon, 1717

Rosenkranz, H. S. See Eddy, Howard, McCoy, and Rosenkranz, 3163

Roseto, A. See Pancino, Charpin, Calvo, Guillemin, and Roseto, 4444

Rosner, M. R. See McCaffrey and Rosner, 1081; Wattenberg, Fujiki, and Rosner, 4618

Rosol, T. J., Capen, C. C., and Brooks, C. L. Bone and Kidney Adenylate Cyclase-stimulating Activity Produced by a Hypercalcemic Canine Adenocarcinoma Line (CAC-8) Maintained in Nude Mice, 690

Rosowsky, A. See Teicher, Holden, Kelley, Shea. Cucchi, Rosowsky, Henner, and Frei, 388 Rosowsky, A., Wright, J. E., Cucchi, C. A., Flatow,

J. L., Trites, D. H., Teicher, B. A., and Frei, E III Collateral Methotrexate Resistance in Cultured Human Head and Neck Carcinoma Cells Selected for Resistance to cis-Diamminedichloroplatinum(II), 5913

Ross, A. H. See Herlyn, Rodeck, Mancianti, Cardillo, Lang, Ross, Jambrosic, and Koprowski, 3057

Ross, B. D. See Buckman, Erickson, and Ross,

Ross, B. E. See Freeman, Dowell, Ochs, Ross, and

Ross, W. E. See Sullivan, Latham, and Ross, 3973 Rossi, G. B. See Pulciani, Sakano, Ohnishi, Anastasi, Pecorelli, Fiorucci Oppi, Rossi, and Bon-

Rossi, S. See Corallini, Pagnani, Viadana, Camellin, Caputo, Reschiglian, Rossi, Altavilla, Selvatici, and Barbanti-Brodano, 6671

Rostène, W. H. See Bouizar, Rostène, Treilhou-Lahille, Pidoux, Milhaud, and Moukhtar, 3595 Rot, M. K. See Broers, Rot, Oostendorp, Huysmans, Wagenaar, Wiersma-van Tilburg, Vooijs,

and Ramaekers, 3225 Roth, E. See Kane, Roth, Raptis, Schreiber, and

Waxman, 6444 Rothman, V. L. See Tuszynski, Gasic, Rothman, Knudsen, and Gasic, 4130

Rothschild, T. C., Boylan, E. S., Calhoon, R. E, and Vonderhaar, B. K. Transplacental Effects of Diethylstilbestrol on Mammary Development and Tumorigenesis in Female ACI Rats, 4508

Rotilio, G. See Lazzarino, Viola, Mulieri, Rotilio, and Mavelli, 6511

Rotin, D., Wan, P., Grinstein, S., and Tannock, I.
Cytotoxicity of Compounds That Interfere with the Regulation of Intracellular pH: A Potential New Class of Anticancer Drugs, 1497

Roubinet, F. See Valette, Gas, Jozan, Roubinet, Dupont, and Bayard, 1615

Rouesse, J. See Khayat, Lokiec, Bizzari, Weil, Meeus, Sellami, Rouesse, Banzet, and Jacquillat, 6782

Rowinsky, E. K., Ettinger, D. S., McGuire, W. P., Noe, D. A., Grochow, L. B., and Donehower, R. C. Prolonged Infusion of Hexamethylene Bisacetamide: A Phase I and Pharmacologic Study,

Rowley, D. R., and Tindall, D. J. Responses of NBT-II Bladder Carcinoma Cells to Conditioned Medium from Normal Fetal Urogenital Sinus, 2955

Rowlinson, G., Snook, D., Busza, A., and Epenetos, A. A. Antibody-guided Localization of Intraper-itoneal Tumors following Intraperitoneal or Intravenous Antibody Administration, 6528

Roy, U. See Coderre, Glass, Fairchild, Roy, Cohen, and Fand, 6377

Roy-Burman, P. See Billings, Shuin, Lillehaug, Miura, Roy-Burman, and Landolph, 3643

Royston, I. See Leonard, Johnson, Felsen, Tanney, Royston, and Dillman, 2899

Rozhin, J., Robinson, D., Stevens, M. A., Lah, T. T., Honn, K. V., Ryan, R. E., and Sloane, B. F. Properties of a Plasma Membrane-associated Cathepsin B-like Cysteine Proteinase in Metastatic B16 Melanoma Variants. 6620

Rubenstein, M., Shaw, M.W., McKiel, C. F., Ray, P. S., and Guinan, P. D. Immunoregulatory Markers in Rats Carrying Dunning R3327 H, G, or MAT-LyLu Prostatic Adenocarcinoma Variants, 178

Rubin, H., Chu, B. M., and Arnstein, P. Selection and Adaptation for Rapid Growth in Culture of Cells from Delayed Sarcomas in Nude Mice, 486

Rubin, H., and Nomura, T. Use of Lymph in Cell Culture to Model Hormonal and Nutritional Constraints on Tumor Growth in Vivo, 4924

Rubin, L. A. See Lotze, Custer, Sharrow, Rubin,

Nelson, and Rosenberg, 2188 Rudo, K., Meyers, W. C., Dauterman, W., and Langenbach, R. Comparison of Human and Rat Hepatocyte Metabolism and Mutagenic Activation of 2-Acetylaminofluorene, 5861

Ruebner, B. H. See Cullen, Ruebner, Hsieh, Hyde, and Hsieh, 1913

Ruenitz, P. C., Arrendale, R. F., George, G. D., Thompson, C. B., Mokler, C. M., and Nanavati, N. T. Biotransformation of the Antiestrogen Clomiphene to Chemically Reactive Metabolites in the Immature Female Rat, 4015

Rugg, C. A. See Hedley, Rugg, and Gelber, 4729 Rundhaug, J., Gubler, M. L., Sherman, M. I., Blaner, W. S., and Bertram, J. S. Differential Uptake, Binding, and Metabolism of Retinol and Retinoic Acid by 10T1/2 Cells, 5637

Rundquist, I. See Lundberg, Carstensen, and Rundquist, 1973

Runkel, S. See Vaupel, Fortmeyer, Runkel, and

Kallinowski, 3496

Ruscetti, F. W. See Ferrero, Pregno, Tarella, Ruscetti, Pileri, and Gallo, 6413

Rusciano, D. See Terrana, Rusciano, and Pacenti,

Rusckowski, M. See Hnatowich, Gionet, Rusckowski, Siebecker, Roche, Shealy, Mattis, Wilson, Hunter, Griffin, and Doherty, 6111 Rushmore, T. H., Ghazarian, D. M., Subrahman-

yan, V., Farber, E., and Ghoshal, A. K. Probable Free Radical Effects on Rat Liver Nuclei during Early Hepatocarcinogenesis with a Choline-devoid Low-Methionine Diet, 6731

Russell, J. J., Staffeldt, E. F., Wright, B. J., Prapuolenis, A., Carnes, B. A., and Peraino, C. Effects of Rat Strain, Diet Composition, and Phenobar-bital on Hepatic γ-Glutamyl Transpeptidase Histochemistry and on the Induction of Altered Hepatocyte Foci and Hepatic Tumors by Diethylnitrosamine, 1130

Russo, P. See Heston, Yang, Pliner, Russo, and Covey, 3627

Russo, P., Liguori, G., Heston, W. D. W., Huryk, R., Yang, C-R., Fair, W. R., Whitmore, W. F., and Herr, H. W. Effects of Intermittent Diethylstilbestrol Diphosphate Administration on the R3327 Rat Prostatic Carcinoma, 5967

Russo, P., Taningher, M., Pala, M., Pisano, V., Pedemonte, P., De Angeli, M. T., Carlone, S., Santi, L., and Parodi, S. Characterization of the Effects Induced on DNA in Mouse and Hamster Cells by Lithocholic Acid, 2866

Rutka, J. T., Giblin, J. R., Apodaca, G., DeArmond, S. J., Stern, R., and Rosenblum, M. L. Inhibition of Growth and Induction of Differentiation in a Malignant Human Glioma Cell Line by Normal Leptomeningeal Extracellular Matrix Proteins,

Rutman, R. J. See Ritter, Rutman, and Goldstein,

Ruzicka, F. J., Schmid, S. M., Groveman, D. S., Cummings, K. B., and Borden, E. C. Variation in the Binding of 1251-labeled Interferon-Best to Cellular Receptors during Growth of Human Renal and Bladder Carcinoma Cells in Vitro, 4582

Ryan, R. E. See Rozhin, Robinson, Stevens, Lah, Honn, Ryan, and Sloane, 6620

Ryder, R. See Hall, Inskip, Loik, Tomatis, Day, O'Conor, Bosch, Muir, Parkin, Muñoz, Greenwood, Whittle, Ryder, Oldfield, N'jie, Smith, and Coursaget, 5782

Ryser, H. J-P. See Wade, Mandel, and Ryser, 6606

Sacchetti, C. See Ponz de Leon, Roncucci, di Donato, Sacchetti, Pezcoller, Annoni, Bertani, Rebecchi, Balli, Galli, and Carulli, 305

Sachs, L. Cell Differentiation and Bypassing of Genetic Defects in the Suppression of Malignancy, 1981, Perspectives in Cancer Research Sacker, D. See Gabel, Holstein, Larsson, Gille,

Ericson, Sacker, Som, and Fairchild, 5451 Sacks, P. G. See Eisbruch, Blick, Lee, Sacks, and Gutterman, 3603

Sadée, W. See Duan and Sadée, 4047

Sadée, W., Yu, V. C., Richards, M. L., Preis, P. N., Schwab, M. R., Brodsky, F. M., and Biedler, J. L. Expression of Neurotransmitter Receptors and myc Protooncogenes in Subclones of a Human Neuroblastoma Cell Line, 5207

Sado, T. See Muto, Kubo, and Sado, 3469 Sadoff, J. C. See Sivam, Pearson, Bohn, Oldham, Sadoff, and Morgan, 3169

Safa, A. R. See Beck, Cirtain, Danks, Felsted, Safa, Wolverton, Suttle, and Trent, 5455

Safa, A. R., Glover, C. J., and Felsted, R. L. Identification of Vinca Alkaloid Acceptors in P388 Murine Leukemia Cells with a Photoactive Analogue of Vinblastine, 5149

Safe, S. See Romkes, Piskorska-Pliszczynska, Keys, Safe, and Fujita, 5108

Saffiotti, U. See Garbisa, Pozzatti, Muschel, Saf-fiotti, Ballin, Goldfarb, Khoury, and Liotta,

Sagawa, K. See Sakai, Hattori, Sagawa, Yokoyama, and Takatsuki, 5572

Saiki, I. See Fidler, Heicappell, Saiki, Grutter, Horisberger, and Nuesch, 2020

Saito, H. See Sugimoto, Oh-hara, Watanabe,

Saito, Yamori, and Tsuruo, 4396 Saito, K. See Konno, Suzuki, Tadakuma, Kumai, Yasuda, Kubota, Ohta, Nagaike, Hosokawa, Ishibiki, Abe, and Saito, 4471

Saito, M. See Endo, Kato, Takeda, Saito, Ume-moto, Kishida, and Hara, 1076

Saito, M. See Furukawa, Ohta, Kasahara, Miura, and Saito, 2589

Saito, M. See Seyfried, Yu, Saito, and Albert, 3538 Saito, T., Berens, M. E., and Welander, E. C. Characterization of the Indirect Antitumor Effect of γ-Interferon Using Ascites-associated Macrophages in a Human Tumor Clonogenic

Saitoh, M. See Ido, Sato, Sakurai, Inagaki, Saitoh, Watanabe, and Hidaka, 3460

Sakahara, H. See Matsuoka, Nakashima, Endo, Yoshida, Kunimatsu, Sakahara, Koizumi, Nakagawa, Yamaguchi, and Torizuka, 6335

Sakai, K., Hattori, T., Sagawa, K., Yokoyama, M., and Takatsuki, K. Biochemical and Functional Characterization of MCS-2 Antigen (CD13) on Myeloid Leukemic Cells and Polymorphonu-clear Leukocytes, 5572

Sakai, M. See Kano, Sakai, and Muramatsu, 5626 Sakakibara, F. See Okutomi, Nakajima, Sakakibara, Kawauchi, and Yamazaki, 47

Sakakibara, I. See Tsujimoto, Noda, Ishikawa, Nakamura, Fukasawa, Sakakibara, Sasagawa, Honjo, and Hayami, 269

Sakamoto, K. See Ikeda, Nakano, Nagashima, Sakamoto, Harasawa, Kitamura, Nakamura, and Nagamachi, 231

Sakamoto, S. See Suda, Sakamoto, Hida, Kano, Takaku, and Miura, 2782

Sakano, T. See Pulciani, Sakano, Ohnishi, Anastasi, Pecorelli, Fiorucci, Oppi, Rossi, and Bonavida 523

Sakata, K. See Tokunaga, Nakamura, Sakata, Fujimori, Ohkubo, Sawada, and Sakiyama, 5616 Sakata, T. See Fukushima, Sakata, Tagawa, Shi-

bata, Hirose, and Ito, 2113 Sakiyama, S. See Hiwasa, Tanigawara, and Saki-yama, 953; Tokunaga, Nakamura, Sakata, Fujimori, Ohkubo, Sawada, and Sakiyama, 5616

Sako, T., Yuspa, S. H., Herald, C. L., Pettit, G. R., and Blumberg, P. M. Partial Parallelism and Partial Blockade by Bryostatin 1 of Effects of Phorbol Ester Tumor Promoters on Primary Mouse Epidermal Cells, 5445

Sakurai, M. See Ido, Sato, Sakurai, Inagaki, Sai-toh, Watanabe, and Hidaka, 3460 Sakurai, M. See Kaneko, Kanda, Maseki, Sakurai,

Tsuchida, Takeda, Okabe, and Sakurai, 311 Sakurai, M. See Kaneko, Kanda, Maseki, Sakurai, Tsuchida, Takeda, Okabe, and Sakurai, 311; Maseki, Kaneko, Sakurai, Kurihara, Sampi, Shimamura, and Takayama, 6767

Salinas, F. A., Wee, K. H., and Ceriani, R. I. Significance of Breast Carcinoma-associated Antigens as a Monitor of Tumor Burden: Characterization by Monoclonal Antibodies, 907

Salomon, D. S. See Cooper, Bhattacharya, Bassin, and Salomon, 4493

Saltzgaber-Muller, J. See Brown, Davis, Saltzgaber-Muller, Simon, Ho, Shaw, Stone, Sands, and Moore, 3577

Samma, S. See Homma, Kakizoe, Samma, and Oyasu, 6176

Sampi, K. See Maseki, Kaneko, Sakurai, Kurihara, Sampi, Shimamura, and Takayama, 6767

Samson, M. See Gioanni, Samson, Zanghellini, Mazeau, Ettore, Demard, Chauvel, Duplay, Schneider, Laurent, and Lalanne, 4417

Samuel, M. J. See D'Ambrosio, Samuel, Dutta-Choudhury, and Wani, 51 Samuels, L. L. See Fanucchi, Kinahan, Samuels,

Hancock, Chou, Niedzwiecki, Farag, Vidal, DeGraw, Sternberg, Sirotnak, and Young, 2334

Sandberg, A. A. See Matuo, Nishi, Matsui, Sandberg, Isaacs, and Wada, 188; Ohyashiki, Ohyashiki, Sandberg, Minowada, and Kinniburgh,

Sandle, G. I. See Davies, Weidema, Sandle, Palmer, Deschner, and DeCosse, 4646

Sando, J. J. See Jensen and Sando, 3868; Speizer. Atherton, and Sando, 4830

Sands, H. See Brown, Comeau, Jones, Liberatore, Neacy, Sands, and Gallagher, 1149; Brown, Davis, Saltzgaber-Muller, Simon, Ho, Shaw, Stone, Sands, and Moore, 3577

Sanford, K. K. See Gantt, Sanford, Parshad, Price, Peterson, and Rhim, 1390

Sanno, Y. See Hirota, Hirota, Sanno, and Tanaka.

Santella, R. M. See Yang, DeLeo, and Santella, 2451

Santi, L. See Russo, Taningher, Pala, Pisano, Pe-demonte, De Angeli, Carlone, Santi, and Parodi,

Santone, K. S. See Powis, Hodnett, Santone, See, and Melder, 2363

Santos, G. W. See Szeluga, Stuart, Brookmeyer, Utermohlen, and Santos, 3309

Sapareto, S. A. See Chen, Sapareto, and Chou, 11 Sappino, A-P., Busso, N., Belin, D., and Vassalli, J-D. Increase of Urokinase-type Plasminogen Activator Gene Expression in Human Lung and Breast Carcinomas, 4043

Sariban, E., Kohn, K. W., Zlotogorski, C., Laurent, G., D'Incalci, M., Day, R., III, Smith, B. H., Kornblith, P. L., and Erickson, L. C. DNA Cross-Linking Responses of Human Malignant Glioma Cell Strains to Chloroethylnitrosoureas, Cisplatin, and Diaziquone, 3988

Sarma, D. S. R. See Columbano, Ledda-Columbano, Lee, Rajalakshmi, and Sarma, 5557

Sarma, P. R. See Chawla, Lawson, Sarma, Nixon, and Travis, 1179

Sartorelli, A. C. See Keyes, Rockwell, and Sartorelli, 5654; Reiss and Sartorelli, 6705; Sokoloski and Sartorelli, 6283

Sasagawa, A. See Tsujimoto, Noda, Ishikawa, Nakamura, Fukasawa, Sakakibara, Sasagawa, Honjo, and Hayami, 269

Sasse-Dwight, S. See Gralla, Sasse-Dwight, and Poljak, 5092

Satake, T. See Ogawa, Kondo, Sugiyama, Ogawa, Satake, and Ozawa, 1239

Sato, B. See Hiraoka, Nakamura, Nishizawa, Uchida, Noguchi, Matsumoto, and Sato, 6560; Noguchi, Nishizawa, Nakamura, Uchida, Yamaguchi, Sato, Kitamura, and Matsumoto, 263; Omukai, Nakamura, Hiraoka, Nishizawa, Uchida, Noguchi, Sato, and Matsumoto, 4329

Sato, H. See Preisler, Sato, Li, Stein, and Stein,

Sato, K. See Ido, Sato, Sakurai, Inagaki, Saitoh, Watanabe, and Hidaka, 3460

Sato, K. See Shiratori, Soma, Maruyama, Sato, Takano, and Sato, 6806

Sato, K., Fujii, Y., Ono, M., Nomura, H., and Shizume, K. Production of Interleukin 1α-like Factor and Colony-Stimulating Factor by a Squamous Cell Carcinoma of the Thyroid (T3M-5) Derived from a Patient with Hypercal-

(15) Supervisors of a data with hyperacemia and Leukocytosis, 6474
Sato, M., Azuma, M., Hayashi, Y., Yoshida, H.,
Yanagawa, T., and Yura, Y. 5-Azacytidine Induction of Stable Myoepithelial and Acinar Cells from a Human Salivary Intercalated Duct Cell Clone, 4453

Sato, N., Yagihashi, A., Okubo, M., Torigoe, T., Takahashi, S., Sato, T., and Kikuchi, K. Characterization of Tumor Rejection Antigen Molecules of Chemically Induced Murine Colon Tumor C-C26, 3147

Sato, S. See Hayatsu, Kasai, Yokoyama, Miya-zawa, Yamaizumi, Sato, Nishimura, Arimoto, Hayatsu, and Ohara, 791; Williams and Sato,

Sato, S. See Shiratori, Soma, Maruyama, Sato, Takano, and Sato, 6806

Sato, T. See Sato, Yagihashi, Okubo, Torigoe, Takahashi, Sato, and Kikuchi, 3147

Satoh, M. See Naganuma, Satoh, and Imura, 983 Sauceda, R. See Ocadiz, Sauceda, Cruz, Graef, and Gariglio, 4173

Saucier, J-M. See Auclair, Pierre, Voisin, Pepin, Cros. Colas, Saucier, Verschuere, Gros, and Paoletti, 6254

Sauer, L. A. See Richtsmeier, Dauchy, and Sauer, 5230

Sauer, L. A., and Dauchy, R. T. Blood Nutrient Concentrations and Tumor Growth in Vivo in Rats: Relationships during the Onset of an Acute Fast, 1065: Stimulation of Tumor Growth in Adult Rats in Vivo during Acute Streptozo-tocin-induced Diabetes, 1756

Robins, P. P., Tan, M-T., Spindler, C. D., and Robins, R. K. Use of Tiazofurin to Enhance the Metabolism and Cytotoxic Activities of Ana-logues of Guanine, Guanosine, and Deoxyguanosine, 1022

Sautins, I. See Johnson, Barth, Adams, Holman,

Price, and Sautins, 1111 Sauvage, C. A., Mendelsohn, J. C., Lesley, J. F., and Trowbridge, I. S. Effects of Monoclonal Antibodies That Block Transferrin Receptor Function on the in Vivo Growth of a Syngeneic Murine Leukemia, 747

Savitz, D. A. See Brinton, Tashima, Lehman, Levine, Mallin, Savitz, Stolley, and Fraumeni, 1706 Sawada, K. See Tokunaga, Nakamura, Sakata, Fujimori, Ohkubo, Sawada, and Sakiyama, 5616

Sawada, N., Staecker, J. L., and Pitot, H. C. Effects of Tumor-promoting Agents 12-O-Tetradecanoylphorbol-13-acetate and Phenobarbital on DNA Synthesis of Rat Hepatocytes in Primary Culture, 5665

Sawada, S. See Kunimoto, Nitta, Tanaka, Uehara, Baba, Takeuchi, Yokokura, Sawada, Miyasaka, and Mutai, 5944

Sawada, T. See Matsumura, Sugimoto, Sawada, Amagai, Negoro, and Kemshead, 2924; Sugi-moto, Sawada, Matsumura, Horii, Kemshead.

Suzuki, Okada, Tagaya, and Hino, 5433 Sawlivich, W. See Haagensen, Metzgar, Sawlivich, Swenson, Davis, Newman, Zamcheck, Wells, and Hansen, 5606

Sawyer, R. C. See Stolfi, Sawyer, and Martin, 16 Saxton, R. E. See Munker, Munker, Saxton, and Koeffler, 4081; Tsuchida, Ravindranath, Saxton, and Irie, 1278

Scala, D. A., and Ip, M. M. Characterization of Estrogen-binding Proteins in Variants of a Rat Mammary Tumor, 4287

Scanlon, E. F. See Murthy, Rao, Khandekar, and Scanlon, 774

Scannon, P. J. See Byers, Pimm, Pawluczyk, Lee, Scannon, and Baldwin, 5277; Byers, Pimm, Scannon, Pawluczyk, and Baldwin, 5042; Harkonen, Stoudemire, Mischak, Spitler, Lopez, and Scannon, 1377; Spitler, del Rio, Khentigan, Wedel, Brophy, Miller, Harkonen, Rosendorf, Lee, Mischak, Kawahata, Stoudemire, Fradkin, Bautista, and Scannon, 1717

Scanzano, R. See Labateya, Thomson, Durko, Shenouda, Robb, and Scanzano, 1058

Scarpelli, D. G. See Mangino, Hollenberg, and Scarpelli, 4776; Rao, Mangino, Usman, Subbarao, Scarpelli, Reddy, and Reddy, 1657 Scavone, S. V. See Sebolt, Scavone, Pinter, Ha-

melehle, Von Hoff, and Jackson, 4299 Schachter, H. See Baker, Kanani, Brockhausen, Schachter, Hindenburg, and Taub, 2763

Schartl, M. See Barnekow, Paul, and Schartl, 235 Schechter, P. J. See Haegele, Splinter, Romijn, Schechter, and Sjoerdsma, 890

Scheffer, A. See Collard, van de Poll, Scheffer, Roos, Hopman, Geurts van Kessel, and van

Dongen, 6666
Schein, P. S., Green, D., Dean, S. W., and Mc-Pherson, E. 6-[Bis(2-chloroethyl)amino]-6-deoxygalactopyranose Hydrochloride (C6-Galactose Mustard), a New Alkylating Agent with Reduced Bone Marrow Toxicity, 696

Scherer, E. See Terheggen, Floot, Scherer, Begg, Fichtinger-Schepman, and den Engelse, 6719 Schiefer, M. A. See Zimm, Cleary, Lucas, Weiss, Markman, Andrews, Schiefer, Kim, Horton, and

Howell, 1712

Schiffman, M. H., Haley, N. J., Felton, J. S., Andrews, A. W., Kaslow, R. A., Lancaster, W. D., Kurman, R. J., Brinton, L. A., Lannom, L. B., and Hoffmann, D. Biochemical Epidemiology of Cervical Neoplasia: Measuring Cigarette Smoke Constituents in the Cervix, 3886

Schijven, J. F. See Collard, Schijven, and Roos,

Schiller, J. H., Bittner, G., Storer, B., and Willson

J. K. V. Synergistic Antitumor Effects of Tumor Necrosis Factor and γ-Interferon on Human Colon Carcinoma Cell Lines, 2809

Schilsky, R. L. See Bennett, Sinkule, Schilsky, Senekjian, and Choi, 1952

Schimke, R. T. See Sherwood, Daggett, and Schimke, 3584

Schindler, J. See Talmadge, Phillips, Schindler, Tribble, and Pennington, 5725 Schleicher, R. L., Green, A. W., and Beattie, C. W. Growth and Metastasis of Hamster Melanoma following Transplantation into Athymic Mice,

Schleicher, R. L., Hitselberger, M. H., and Beattie, C. W. Inhibition of Hamster Melanoma Growth

by Estrogen, 453

Schlom, J. See Colcher, Esteban, Carrasquillo, Sugarbaker, Reynolds, Bryant, Larson, and Schlom, 1185, 4218; Ohuchi, Horan Hand, Merlo, Fujita, Mariani-Costantini, Thor, Nose, Callahan, and Schlom, 1413; Ohuchi, Wunderlich, Fujita, Colcher, Muraro, Nose, and Schlom, 3565; Thor, Muraro, Gorstein, Ohuchi, Viglione, Szpak, Johnston, and Schlom, 505

Schmähl, D. See Kaldor, Bartsch, and Schmähl,

Schmid, S. M. See Ruzicka, Schmid, Groveman, Cummings, and Borden, 4582 Schmidt, C. G. See Miller and Schmidt, 1461

Schmidt, H. See Ganapathi, Grabowski, Schmidt, Bell, and Melia, 3464

Schmidt, W. N. See Olinski, Wedrychowski, Schmidt, Briggs, and Hnilica, 201 Schmiegelow, P. See Lehmann, Holzmann, Breit-

bart, Schmiegelow, Riethmüller, and Johnson, 841

Schmitt, R. See Buchmann, Schwarz, Schmitt, Wolf, Oesch, and Kunz, 2911

Schneider, B. See Dippold, Bernhard, Klingel, Dienes, Kron, Schneider, Knuth, and Meyer zum Büschenfelde, 3873

Schneider, M. See Gioanni, Samson, Zanghellini, Mazeau, Ettore, Demard, Chauvel, Duplay, Schneider, Laurent, and Lalanne, 4417

Schneider, S. L. See Fuqua, Moretti-Rojas, Schneider, and McGuire, 2103

Schoentag, R., Primus, F. J., and Kuhns, W. ABH and Lewis Blood Group Expression in Colorectal Carcinoma, 1695 Schold, S. C., Jr. See Kligerman, Erexson, Wilmer,

and Schold, 631

Schön, A. See Borrebaeck and Schön, 4345

or, N. F. T. Adjunctive Use of Ethiofos (WR-2721) with Free Radical-generating Chemotherapeutic Agents in Mice: New Caveats for Therару, 5411

Schray, K. J. See Borlinghaus, Fitzpatrick, Heindel, Mattis, Mease, Schray, Shealy, Walton, and Woo, 4071

Schreiber, C. See Kane, Roth, Raptis, Schreiber, and Waxman, 6444
Schreyer, M. See Sutherland, Buchegger,

Schreyer, Vacca, and Mach, 1627

Schröder, H. C. See Müller, Sladić, Zahn, Bässler,

Dogović, Gerner, Gasić, and Schröder, 6565 Schroff, R. W. See Eger, Covell, Carrasquillo, Abrams, Foon, Reynolds, Schroff, Morgan, Larson, and Weinstein, 3328

Schröter, C., Parzefall, W., Schröter, H., and Schulte-Hermann, R. Dose-Response Studies on the Effects of α -, β -, and γ -Hexachlorocyclohexane on Putative Preneoplastic Foci, Monooxygenases, and Growth in Rat Liver, 80

Schröter, H. See Schröter, Parzefall, Schröter, and Schulte-Hermann, 80

Schuler, U. See Ehninger, Klingebiel, Kumbier, Schuler, Feine, Treuner, and Waller, 6147 Schuller, H. M. See Lau, McMahon, McMenamin,

Schuller, and Boyd, 3757

Schulte, N. See Richon, Schulte, and Eastman,

Schulte-Hermann, R. See Schröter, Parzefall, Schröter, and Schulte-Hermann, 80 Schuman, V. L. See Rhee, Schuman, Song, and

Levitt, 2571 Schut, H. A. J. See Branstetter, Stoner, Schut, Senitzer, Conran, and Goldblatt, 348 Schutte, B. See Arends, Schutte, Wiggers, Verstijnen, Blijham, and Bosman, 4342

Schutte, B., Reynders, M. M. J., Wiggers, T., Arends, J. W., Volovics, L., Bosman, F. T., and Blijham, G. H. Retrospective Analysis of the Prognostic Significance of DNA Content and Proliferative Activity in Large Bowel Carci-

Schwab, M. R. See Grady, Schwab, and Rosenau, 2931; Sadée, Yu, Richards, Preis, Schwab, Brod-sky, and Biedler, 5207

Schwab, R. See Tsuda, Kim, Siskind, DeBlasio, Schwab, Ershler, and Weksler, 3097

Schwamborn, J. See Riscoe, Schwamborn, Ferro, Olson, and Fitchen, 3830 Schwartz, E. L. See Wiernik, Schwartz, Strauman,

Dutcher, Lipton, and Paietta, 2486 Schwartz, M. S. See Medina, Schwartz, Taha,

Oborn, and Smith, 4686 Schwartz, M. S., and Medina, D. Characterization of the DIM Series of BALB/c Preneoplasms for Mouse Mammary Tumor Virus-mediated Oncogenesis, 5707

Schwarz, M. See Buchmann, Schwarz, Schmitt, Wolf, Oesch, and Kunz, 2911

Sciabà, L. See Brambilla, Carlo, Finollo, and Sciabà, 3485

Scott, C. B. See Yavelow, Scott, and Mayer, 1602 Scott Algara, D. See Bravo Cuellar, Scott Algara, Metzger, and Orbach-Arbouys, 3477

Scourides, P. A., Böhmer, R. M., Kaye, A. H., and Morstyn, G. Nature of the Tumor-localizing Components of Hematoporphyrin Derivative, 3439

Seamer, L. See Dressler, Seamer, Owens, Clark, and McGuire, 5294

Sebolt, J. S., Scavone, S. V., Pinter, C. D., Hame-lehle, K. L., Von Hoff, D. D., and Jackson, R. C. Pyrazoloacridines, a New Class of Anticancer Agents with Selectivity against Solid Tumors in

See, K. L. See Powis, Hodnett, Santone, See, and Melder, 2363

Seeger, J. I. See Gierthy, Lincoln, Gillespie, Seeger, Martinez, Dickerman, and Kumar, 6198 eger, R. C. See Brodeur, Hayes, Green, Casper,

Wasson, Wallach, and Seeger, 4248 Segal, A., Seidman, I., and Melchionne, S. Induc-tion of Thymic Lymphomas and Squamous Cell Carcinomas following Topical Application of Isopropyl Methanesulfonate to Female Hsd:(ICR)BR Mice, 3402

Segal, S. See Alon, Hammerling, Segal, and Bar-Eli, 2553

Segatto, O. See Ziai, Imberti, Nicotra, Badaracco,

Segatto, Natali, and Ferrone, 2474
Seidenfeld, J., Barnes, D., Block, A. L., and Erickson, L. C. Comparison of DNA Interstrand Cross-Linking and Strand Breakage by 1,3-Bis(2-chloroethyl)-1-nitrosourea in Polyaminedepleted and Control Human Adenocarcinoma Cells, 4538

Seidman, I. See Segal, Seidman, and Melchionne, 3402

Seigler, H. F. See Peters, Henner, Grochow, Olsen, Edwards, Stanbuck, Stuart, Gockerman, Moore, Bast, Seigler, and Colvin, 6402

Seijkens, D. See Sijens, Bovée, Seijkens, Koole, Los, and van Rijssel, 6467

Seinsch, D. See Ernst, Emura, Bellmann, Seinsch, and Mohr, 5112

Sekiya, S. See Kawata, Sekiya, Takamizawa, Muramatsu, and Okumura, 2288

Sellami, M. See Khayat, Lokiec, Bizzari, Weil, Meeus, Sellami, Rouesse, Banzet, and Jacquillat. 6782

Selleri, L. See Torelli, Venturelli, Coló, Zanni, Selleri, Moretti, Calabretta, and Torelli, 5266

Sellwood, R. A. See Howell, Harland, Barnes, Baildam, Wilkinson, Hayward, Swindell, and Sell-wood, 300; Howell, Harland, Barnes, Hayward, Redford, Swindell, and Sellwood, 296

Selman, S. H. See Morgan, Garbo, Kreimer-Birnbaum, Keck, Chaudhuri, and Selman, 496

Selvatici, R. See Corallini, Pagnani, Viadana, Ca-mellin, Caputo, Reschiglian, Rossi, Altavilla, Selvatici, and Barbanti-Brodano, 6671

Semple, E. See Wollenberg, Semple, Quinn, and Hayes, 6595

Sen, P., Conway, K., and Costa, M. Comparison of the Localization of Chromosome Damage Induced by Calcium Chromate and Nickel Compounds, 2142

Sendo, F. See Fujii, Kimura, Arai, and Sendo, 6000; Fukase, Inoue, Arai, and Sendo, 4842; Kimura, Inoue, Yamashita, Midorikawa, Arai,

and Sendo, 6204

Senekjian, E. See Bennett, Sinkule, Schilsky, Senekjian, and Choi, 1952

Sener, A., Giroix, M-H., Hellerström, C., and Malaisse, W. J. Influence of p-Glucose upon the Respiratory and Secretory Response of Insulinproducing Tumor Cells to 2-Aminobicy-clo[2,2,1]heptane-2-carboxylic Acid, 5905

Senitzer, D. See Branstetter, Stoner, Schut, Senitzer, Conran, and Goldblatt, 348

Seon, B. K. See Matsuzaki, Haruta, Fukukawa, Barcos, and Seon, 2160; Matsuzaki and Seon,

Seremet, T. See Autrup, Seremet, Wakhisi, and Wasunna, 3430

Seshadri, R., Kutlaca, R. J., Trainor, K., Matthews C., and Morley, A. A. Mutation Rate of Normal and Malignant Human Lymphocytes, 407

ians, A. See Kerr, Kaye, Cassidy, Bradley, Rankin, Adams, Setanoians, Young, Forrest, Soukop, and Clavel, 6776

Setyono-Han, B., Henkelman, M. S., Foekens, J. A., and Klijn, J. G. M. Direct Inhibitory Effects of Somatostatin (Analogues) on the Growth of Human Breast Cancer Cells, 1566

Severini, A. See Prasad, Greer, Severini, and Kaplan, 5397

Seyfried, T. N., Yu, R. K., Saito, M., and Albert, M. Ganglioside Composition of an Experimental Mouse Brain Tumor, 3538

Sezaki, H. See Atsumi, Endo, Kakutani, Takakura, Hashida, and Sezaki, 5546

Shah, V. See Wang, Shah, and Lanks, 3341 Shamanski, F. See Tainsky, Shamanski, Blair, and Giovanella, 3235

Sharabi, Y. See Klein, Lang, Eshel, Sharabi, and Shoham, 3351

Sharief, Y. See Arce, Allen, Doerr, Elmore, Hatch, Moore, Sharief, Grunberger, and Nesnow, 3388 Sharkey, R. M. See Fand, Sharkey, Primus,

Cohen, and Goldenberg, 2177

Sharkey, R. M., Pykett, M. J., Siegel, J. A., Alger, E. A., Primus, F. J., and Goldenberg, D. M. Radioimmunotherapy of the GW-39 Human Colonic Tumor Xenograft with 131I-labeled Murine Monoclonal Antibody to Carcinoembryonic Antigen, 5672

Sharma, C. See Reddy, Sharma, Simi, Engle, Laakso, Puska, and Korpela, 644

Sharma, M. See Niedbala, Madiyalakan, Matta, Crickard, Sharma, and Bernacki, 4634 Sharp, J. G. See Joshi, Tilden, Jackson, Sharp,

and Brunson, 3551 Sharplin, J. See Franko, Koch, Garrecht, Sharplin,

and Hughes, 5367 Sharrow, S. O. See Lotze, Custer, Sharrow, Rubin,

Nelson, and Rosenberg, 2188 Shaughnessy, S. See Leroyer, Werner, Shaugh-

nessy, Goddard, and Orr, 4771 Shaw, M. W. See Rubenstein, Shaw, McKiel, Ray,

and Guinan, 178 Shaw, P. S. See Brown, Davis, Saltzgaber-Muller, Simon, Ho, Shaw, Stone, Sands, and Moore,

Shea, T. C. See Teicher, Holden, Kelley, Shea, Cucchi, Rosowsky, Henner, and Frei, 388

Shealy, D. J. See Borlinghaus, Fitzpatrick, Heindel, Mattis, Mease, Schray, Shealy, Walton, and Woo, 4071; Hnatowich, Gionet, Rusckowski, Siebecker, Roche, Shealy, Mattis, Wilson, Hunter, Griffin, and Doherty, 6111

Sheffery, M. See Marks, Sheffery, and Rifkind,

Shelley, M. D. See Fish, Shelley, Griffiths, Adams, Egorin, and Forrest, 3606

Shen, R-N. See Lu, Hangoc, Oliff, Chen, Shen, and Broxmeyer, 4184 Shenouda, G. See Labateya, Thomson, Durko,

Shenouda, Robb, and Scanzano, 1058 Shepard, H. M. See Lewis, Aggarwal, Eessalu, Sugarman, and Shepard, 5382; Sugarman,

Lewis, Eessalu, Aggarwal, and Shepard. 780 Shepherd, J. H. See Ward, Mather, Hawkins, Crowther, Shepherd, Granowska, Britton, and Slevin, 4719; Ward, Wallace, Shepherd, and Balkwill, 2662

Sherman, M. I. See Rundhaug, Gubler, Sherman, Blaner, and Bertram, 5637

Sherrell, B. J. See Stromberg, Hudgins, Dorman, Henderson, Sowder, Sherrell, Mount, and Orth,

Sherwin, S. A. See Blick, Sherwin, Rosenblum, and Gutterman, 2986

Sherwood, S. W., Daggett, A. S., and Schimke, R. T. Interaction of Hyperthermia and Metabolic Inhibitors on the Induction of Chromosome Damage in Chinese Hamster Ovary Cells, 3584

Shibasaki, C. See Umezawa, Nishikawa, Shibasaki, Takahashi, Nakamura, and Takeuchi, 3062 Shibata, M-A. See Fukushima, Sakata, Tagawa, Shibata, Hirose, and Ito, 2113; Fukushima, Shi-

bata, Shirai, Kurata, Tamano, and Imaida, 4821 Shibuya, A. See Ito, Ishikawa, Okano, Hattori, Fujii, Shinozawa, and Shibuya, 4146

Shibuya, T. See Asano, Shibuya, Okamura, Yamaga, Otsuka, and Niho, 5647

Shiloh, Y. See Nagasawa, Kraemer, Shiloh, and Little, 398

Shimamura, K. See Maseki, Kaneko, Sakurai, Kurihara, Sampi, Shimamura, and Takayama, 6767

Shimizu, I. See Terakawa, Havashida, Shimizu, Ikegami, Wakimoto, Aono, Tanizawa, Matsumoto, and Nishida, 1918

Shimizu, N. See Gamou, Hunts, Harigai, Hirohashi, Shimosato, Pastan, and Shimizu, 2668 Shimomura, K. See Manda, Shimomura, Muku-moto, Kobayashi, Mizota, Hirai, Matsumoto,

Oku, Nishigaki, Mori, and Kikuchi, 3707 Shimosato, Y. See Gamou, Hunts, Harigai, Hirohashi, Shimosato, Pastan, and Shimizu, 2668; Terasaki, Shimosato, Nakajima, Tsumuraya, Ichinose, Nagatsu, and Kato, 3533; Watanabe, Okabe, Fujisawa, Takaku, Hirohashi, and Shimosato, 826

Shimotohno, K. See Oda, Watanabe, Sumii, Nakamura, Arakaki, and Shimotohno, 2077 Shinkai, K. See Mukai, Shinkai, Tateishi, Mori,

and Akedo, 2167

Shinozawa, T. See Ito, Ishikawa, Okano, Hattori, Fujii, Shinozawa, and Shibuya, 4146

Shipley, G. D. See Coffey, Goustin, Soderquist, Shipley, Wolfshohl, Carpenter, and Moses,

Shirai, T. See Fukushima, Shibata, Shirai, Kurata, Tamano, and Imaida, 4821

Shirai, T., Tagawa, Y., Fukushima, S., Imaida, K., and Ito, N. Strong Promoting Activity of Reversible Uracil-induced Urolithiasis on Urinary Bladder Carcinogenesis in Rats Initiated with N-Butyl-N-(4-hydroxybutyl)nitrosamine, 6726

Shiraishi, N., Akiyama, S-i., Nakagawa, M., Kobayashi, M., and Kuwano, M. Effect of Bisbenzylisoguinoline (Biscoclaurine) Alkaloids on Multidrug Resistance in KB Human Cancer

Shiratori, Y., Soma, Y., Maruyama, H., Sato, S. Takano, A., and Sato, K. Immunohistochemical Detection of the Placental Form of Glutathione S-Transferase in Dysplastic and Neoplastic Human Uterine Cervix Lesions, 6806

Shiroeda, O., Yamaguchi, N., and Kawai, K. Stimulation of Low Density Lipoprotein Receptor Activity by Conditioned Medium from a Human Cancer Cell Line, 4630

Shitara, K., Hanai, N., and Yoshida, H. Distribution of Lung Adenocarcinoma-associated Antigens in Human Tissues and Sera Defined by Monoclonal Antibodies KM-52 and KM-93. 1267

Shiu, R. P. C. See Dubik, Dembinski, and Shiu, 6517; Murphy, Lee-Wing, Goldenberg, and Shiu, 4160

Shizume, K. See Sato, Fujii, Ono, Nomura, and Shizume, 6474

Shoemaker, R. See Gorelik, Ovejera, Shoemaker, Jarvis, Alley, Duff, Mayo, Herberman, and Boyd, 5739; McLemore, Liu, Blacker, Gregg, Alley, Abbott, Shoemaker, Bohlman, Litterst,

Hubbard, Brennan, McMahon, Fine, Eggleston, Mayo, and Boyd, 5132

Shoham, J. See Klein, Lang, Eshel, Sharabi, and Shoham, 3351

Shoji, M. See Kiss, Deli, Shoji, Koeffler, Pettit, Vogler, and Kuo, 1302

Shoji, M., Girard, P. R., Charp, P. A., Koeffler, H. , Vogler, W. R., and Kuo, J. F. Effects of Phorbol Ester on Translocation and Down-Regulation of Protein Kinase C and Phosphorylation of Endogenous Proteins in Human Acute Myeloid Leukemia Cell Line KG-1 and Its Phorbol Ester-resistant Subline KG-1a, 6363

Showalter, S. D. See Koff, Dunegan, Chakrabarty, Hampar, and Showalter, 1534

Shu, S., Chou, T., and Rosenberg, S. A. In Vitro Differentiation of T-Cells Capable of Mediating the Regression of Established Syngeneic Tumors in Mice, 1354

Shudo, K. See Jetten, Anderson, Deas, Kagechika, Lotan, Rearick, and Shudo, 3523

Shuin, T. See Billings, Shuin, Lillehaug, Miura, Roy-Burman, and Landolph, 3643

Shull, S. See Rodan, Imai, Thiede, Wesolowski, Thompson, Bar-Shavit, Shull, Mann, and Rodan, 4961

Shymko, R. M. See Klevecz, Shymko, Blumenfeld, and Braly, 6267

Sidky, Y. A., and Borden, E. C. Inhibition of Angiogenesis by Interferons: Effects on Tumor- and Lymphocyte-induced Vascular Responses, 5155

Siebecker, D. A. See Hnatowich, Gionet, Rusckowski, Siebecker, Roche, Shealy, Mattis, Wilson, Hunter, Griffin, and Doherty, 6111

Sieber, S. M. See Parker, Keenan, Dower, Steller, Holton, Sieber, and Weinstein, 2073

Siegal, G. P. See Nelson, Haskill, Sloan, Siegfried, Siegal, Walton, and Kaufman, 2814 Siegel, J. A. See Sharkey, Pykett, Siegel, Alger,

Primus, and Goldenberg, 5672 Siegel, S. E. See Avramis, Biener, Krailo, Finkle-stein, Ettinger, Willoughby, Siegel, and Holcen-

berg, 6786 Siegfried, J. M. Detection of Human Lung Epi-

thelial Cell Growth Factors Produced by a Lung Carcinoma Cell Line: Use in Culture of Primary Solid Lung Tumors, 2903. See also Beeman, Siegfried, and Mass, 541

Siegfried, J. M. See Nelson, Haskill, Sloan, Siegfried, Siegal, Walton, and Kaufman, 2814

Sigman, L. M. See Egorin, Sigman, Van Echo, Forrest, Whitacre, and Aisner, 617 Sihm, A. See Due, Eriksson, Sihm, and Olsson,

Sijens, P. E., Bovée, W. M. M. J., Seijkens, D., Koole, P., Los, G., and van Rijssel, R. H. Murine Mammary Tumor Response to Hyperthermia and Radiotherapy Evaluated by in Vivo 31P-Nuclear Magnetic Resonance Spectroscopy,

Sikic, B. I. See Berinstein, Matthay, Papahadjo-poulos, Levy, and Sikic, 5954Silberman, L. E. See Andersson, Beran, Bakic, Silberman, Newman, and Zwelling, 1040; Zwelling, Estey, Silberman, Doyle, and Hittelman, 251

Silberstein, G. B. See Daniel, Silberstein, and Strickland, 6052

Silveira, D. M. See Plowman, Harrison, Trader, Griswold, Chadwick, McComish, Silveira, and Zaharko, 685

Silverman, D. T. See Malker, McLaughlin, Silverman, Ericsson, Stone, Weiner, Malker, and Blot, 6763

Silverman, S. J. See Bronzert, Silverman, and Lippman, 1234; Lipsky and Silverman, 4900

Simcik, W. J. See LeGrue, Simcik, and Frost, 4413 Simi, B. See Reddy, Sharma, Simi, Engle, Laakso, Puska, and Korpela, 644

Simon, K. See Trump, Tutsch, Willson, Remick, Simon, Alberti, Grem, Koeller, and Tormey, 3895

Simon, M. C. See Kogekar, Spurgeon, Simon, and Smith, 2083

Simon, P. See Brown, Davis, Saltzgaber-Muller, Simon, Ho, Shaw, Stone, Sands, and Moore,

on-Assmann, P., Bouziges, F., Daviaud, D.,

Haffen, K., and Kedinger, M. Synthesis of Glycosaminoglycans by Undifferentiated and Differentiated HT29 Human Colonic Cancer Cells, 4478

Simnson, J. L. See Mandel, Manson, Judah, Simpson, Green, Forrester, Wolf, and Neal, 5218

Singer, J. W. See Andrews, Singer, and Collins,

Singh, P., Le, S., Beauchamp, R. D., Townsend, C. M., Jr., and Thompson, J. C. Inhibition of Pentagastrin-stimulated Up-Regulation of Gastrin Receptors and Growth of Mouse Colon Tumor in Vivo by Proglumide, a Gastrin Receptor Antagonist, 5000

Singhal, A. K., Singhal, M. C., Nudelman, E., Hak-omori, S-i., Balint, J. P., Grant, C. K., and Sny-der, H. W., Jr. Presence of Fucolipid Antigens with Mono and Dimeric X Determinant (Lex) in the Circulating Immune Complexes of Patients with Adenocarcinoma, 5566

Singhal, M. C. See Singhal, Singhal, Nudelman, Hakomori, Balint, Grant, and Snyder, 5566

Singletary, S. E., Baker, F. L., Spitzer, G., Tucker, S. L., Tomasovic, B., Brock, W. A., Ajani, J. A., and Kelly, A. M. Biological Effect of Epidermal Growth Factor on the in Vitro Growth of Human Tumors, 403

Sinha, B. K. See Haim, Nemec, Roman, and Sinha,

Sinibaldi, P. See Alessandri, Filippeschi, Sinibaldi, Mornet, Passera, Spreafico, Cappa, and Gullino, 4243

Sinibaldi, V. See Egorin, Conley, Forrest, Zuhowski, Sinibaldi, and Van Echo, 6104

Sinkule, J. A. See Bennett, Sinkule, Schilsky, Senekijan, and Choi, 1952 Sirbasku, D. A. See Riss and Sirbasku, 3776

Sircar, S., Palkonyay, L., Rodrigues, M., Allaire, S., Horvath, J., Thirion, J-P., and Weber, J. Isolation of Variants Resistant to Methylglyoxal Bis(guanylhydrazone) from Adenovirus-transformed Rat Cells, 1339

Sirotnak, F. M. See Barrueco, Jacobsen, Chang, Brockman, and Sirotnak, 700; Fanucchi, Kinahan, Samuels, Hancock, Chou, Niedzwiecki, Farag, Vidal, DeGraw, Sternberg, Sirotnak, and Young, 2334

Sirotnak, F. M., Poser, R. E., and Barrueco, J. R. Enhancement of Folate Analogue Transport Inward in L1210 Cells during Methotrexate Therapy of Leukemic Mice: Evidence of the Nature of the Effect, Possible Host Mediation, and Pharmacokinetic Significance, 5334

Sirover, M. A. See Vollberg, Cool, and Sirover,

Siskind, G. W. See Tsuda, Kim, Siskind, DeBlasio, Schwab, Ershler, and Weksler, 3097

Sisson, J. C. See Jaques, Tobes, and Sisson, 3920 Sitaramam, V. See Wieczorek, Sitaramam, Machleidt, Rhyner, Perruchoud, and Block, 6407

Sivam, G., Pearson, J. W., Bohn, W., Oldham, R. K., Sadoff, J. C., and Morgan, A. C., Jr. Immunotoxins to a Human Melanoma-associated Antigen: Comparison of Gelonin with Ricin and Other A Chain Conjugates, 3169

Sjoerdsma, A. See Haegele, Splinter, Romijn, Schechter, and Sjoerdsma, 890

Skalski, V. See Poulin, Skalski, and Wainberg,

Skinner, K. A. See Roghmann, Skinner, and Hilf, 1348

Skipper, P. L. See Bryant, Skipper, Tannenbaum, and Maclure, 602 Sklar, J. See Smith, Morgan, Galili, Amylon,

Link, Hecht, Sklar, and Glader, 1652

Skog, S., Tribukait, B., Wallström, B., and Eriksson, S. Hydroxyurea-induced Cell Death as Related to Cell Cycle in Mouse and Human T-Lymphoma Cells, 6490

Skubitz, K. M., Northfelt, D. W., McGowan, S. E., and Hoidal, J. R. Changes in the Cell Surface Protein Composition of Human Alveolar Macrophages Induced by Smoking, 3072

Slack, J. A. See Stevens, Hickman, Langdon, Chubb, Vickers, Stone, Baig, Goddard, Gibson, Slack, Newton, Lunt, Fizames, and Lavelle,

Sladek, N. E. See Kohn, Landkamer, Manthey,

Ramsay, and Sladek, 3180

Sladić, D. See Müller, Sladić, Zahn, Bässler, Dogović, Gerner, Gasić, and Schröder, 6565

Slaga, T. J. See Colburn, Farber, Weinstein, Diamond, and Slaga, 5509; Fischer, Fürstenberger, Marks, and Slaga, 3174; Miller, Viaje, Aldaz, Conti, and Slaga, 1935

Slater, L. See Meador, Sweet, Stupecky, Wetzel,

Murray, Gupta, and Slater, 6216

Sleijfer, D. T. See Stoter, Sylvester, Sleijfer, ten Bokkel Huinink, Kaye, Jones, van Oosterom, Vendrik, Spaander, and de Pauw, 2714 Slevin, M. L. See Ward, Mather, Hawkins,

Crowther, Shepherd, Granowska, Britton, and Slevin, 4719

Sloan, S. See Nelson, Haskill, Sloan, Siegfried, Siegal, Walton, and Kaufman, 2814

e, B. F. See Menter, Steinert, Sloane, Gundlach, O'Gara, Marnett, Diglio, Walz, Taylor, and Honn, 6751; Menter, Steinert, Sloane, Taylor, and Honn, 2425; Rozhin, Robinson, Stevens, Lah, Honn, Ryan, and Sloane, 6620

Sloop, T. C. See Campen, Sloop, Maronpot, and Lucier, 2328

Slovak, M. L., Hoeltge, G. A., and Trent, J. M. Cytogenetic Alterations Associated with the Acquisition of Doxorubicin Resistance: Possible

Significance of Chromosome 7 Alterations,

Smart, R. C., Huang, M-T., Han, Z. T., Kaplan, M. C., Focella, A., and Conney, A. H. Inhibition of 12-O-Tetradecanoylphorbol-13-acetate Induction of Ornithine Decarboxylase Activity, DNA Synthesis, and Tumor Promotion in Mouse Skin by Ascorbic Acid and Ascorbyl Palmitate, 6633

Smarte, N. C. See Keenan, Weinstein, Carrasquillo, Bunn, Reynolds, Foon, Smarte, Ghosh, Fejka, Larson, and Mulshine, 6093

Smeds, S., Peter, H. J., Jörtsö, E., Gerber, H., and Studer, H. Naturally Occurring Clones of Cells with High Intrinsic Proliferation Potential within the Follicular Epithelium of Mouse Thy-

Smereczynska, M. See Thurin, Thurin, Kimoto, Herlyn, Lubeck, Elder, Smereczynska, Karlsson, Clark, Steplewski, and Koprowski, 1229

Smets, L. A. See Benckhuijsen, Osman, Hillebrand, and Smets, 4814

Smith, B. H. See Sariban, Kohn, Zlotogorski, Laurent, D'Incalci, Day, Smith, Kornblith, and Erickson, 3988

Smith, C. A. See Haleem, Kurtzberg, Olsen, Rhinehardt-Clark, Leslie, Ray, Smith, Peters, Haynes, and Bast, 4608

Smith, D. G. See Brent, Lestrud, Smith, and Remack, 3384; Brent, Remack, and Smith, 6185

Smith, G. H. See Medina, Schwartz, Taha, Oborn, and Smith, 4686

Smith, H. S., and Bissell, M. J. Cancer at the Cellular Level, 3337, Meeting Report Smith, I. E. See Coombes, Powles, Easton, Chil-

vers. Ford, Smith, McKinna, White, Bradbeer, Yarnold, Nash, Bettelheim, Dowsett, Gazet, and Investigators of the Collaborative Breast Cancer Project, 2494

Smith, J. See Casero, Go, Theiss, Smith, Baylin, and Luk. 3964

Smith, J. W. See Liao, Smith, Kwong, Natali, Kusama, Hamby, and Ferrone, 4835

Smith, L. J., Braylan, R. C., Edmundson, K. B., Nutkis, J. E., and Wakeland, E. K. In Vitro Transformation of Human B-Cell Follicular Lymphoma Cells by Epstein-Barr Virus, 2062 Smith, M. T. See Evans, Bodell, Tokuda, Doane-

Setzer, and Smith, 2525

Smith, P. See Kaisary, Smith, Jaczq, McAllister, Wilkinson, Ray, and Branch, 5488

Smith, P. G. See Hall, Inskip, Loik, Tomatis, Day, O'Conor, Bosch, Muir, Parkin, Muñoz, Greenwood, Whittle, Ryder, Oldfield, N'jie, Smith, and Coursaget, 5782

Smith, Q. R. See Greig, Momma, Sweeney, Smith, and Rapoport, 1571

Smith, R. E. See Cummins and Smith, 6033; Ko-

gekar, Spurgeon, Simon, and Smith, 2083 mith, S. D., Morgan, R., Galili, N., Amylon, M. D., Link, M. P., Hecht, F., Sklar, J., and Glader,

B. E. Establishment and Characterization of a Common Acute Lymphoblastic Leukemia Cell Line with a Deletion of Chromosome 3 Band q26, page 1652

Smith-Mensah, W. H. See Heiner, Miraldi, Kallick, Makley, Neely, Smith-Mensah, and

Cheung, 5377

Smolarek, T. A., Baird, W. M., Fisher, E. P., and DiGiovanni, J. Benzo(e)pyrene-induced Alterations in the Binding of Benzo(a)pyrene and 7,12-Dimethylbenz(a)anthracene to DNA in Sencar Mouse Epidermis, 3701

Smyth, M. J., Pietersz, G. A., and McKenzie, I. F. C. Selective Enhancement of Antitumor Activity of N-Acetyl Melphalan upon Conjugation to Monoclonal Antibodies, 62

Snider, K. M. See Leiby, Snider, Kraut, Metz, Malspeis, and Grever, 2719

Snook, D. See Rowlinson, Snook, Busza, and Epenetos, 6528

Snook, M. See Jamieson, Finch, Snook, and Wiley, 3130

Snyder, H. W., Jr. See Singhal, Singhal, Nudelman, Hakomori, Balint, Grant, and Snyder, 5566

Soamboonsrup, P. See Clarke, Liao, Leeds, Soamboonsrup, and Neame, 4254

Sobel, M. E. See Wewer, Taraboletti, Sobel, Albrechtsen, and Liotta, 5691

Sobrero, A. F. See McGuire, Sobrero, Hynes, and Bertino, 5975

Sobue, M., Takeuchi, J., Yoshida, K., Akao, S., Fukatsu, T., Nagasaka, T., and Nakashima, N. Isolation and Characterization of Proteoglycans from Human Nonepithelial Tumors, 160

Söderkvist, P. See Gillner, Brittebo, Brandt, Söderkvist, Appelgren, and Gustafsson, 4150 Soderquist, A. M. See Coffey, Goustin, Soderquist,

Shipley, Wolfshohl, Carpenter, and Moses, 4590

Sohn, O. S. See Fiala, Sohn, and Hamilton, 5939; Hamilton, Sohn, and Fiala, 4305

Sohn, O. S., Fiala, E. S., Puz, C., Hamilton, S. R., and Williams, G. M. Enhancement of Rat Liver Microsomal Metabolism of Azoxymethane to Methylazoxymethanol by Chronic Ethanol Administration: Similarity to the Microsomal Metabolism of N-Nitrosodimethylamine, 3123

Sokoloski, J. A., and Sartorelli, A. C. Inhibition of the Synthesis of Glycoproteins and Induction of the Differentiation of HL-60 Promyelocytic Leukemia Cells by 6-Methylmercaptopurine Ribonucleoside, 6283

Som, P. See Gabel, Holstein, Larsson, Gille, Ericson, Sacker, Som, and Fairchild, 5451

Soma, Y. See Shiratori, Soma, Maruyama, Sato, Takano, and Sato, 6806

Sommadossi, J-P. See Heggie, Sommadossi, Cross, Huster, and Diasio, 2203

Song, B. J. See Ko, Park, Song, Patten, Tan, Hah, Yang, and Gelboin, 3101

Song, C. W. See Rhee, Schuman, Song, and Levitt, 2571

Song, C. W., Lee, I., Hasegawa, T., Rhee, J. G., and Levitt, S. H. Increase in pO2 and Radiosensitivity of Tumors by Fluosol-DA (20%) and Carbogen, 442

Sorace, R. A. See Swain, Sorace, Bagley, Danforth, Bader, Wesley, Steinberg, and Lippman, 3889 Sørensen, H. R. See Pettijohn, Stranahan, Due,

Rønne, Sørensen, and Olsson, 1161 Sorof, S., and Custer, R. P. Elevated Expression and Cell Cycle Deregulation of a Mitosis-associated Target Polypeptide of a Carcinogen in Hyperplastic and Malignant Rat Hepatocytes,

Soukop, M. See Kerr, Kaye, Cassidy, Bradley, Rankin, Adams, Setanoians, Young, Forrest, Soukop, and Clavel, 6776

der, R. C. See Stromberg, Hudgins, Dorman, Henderson, Sowder, Sherrell, Mount, and Orth,

Spaander, P. See Stoter, Sylvester, Sleijfer, ten Bokkel Huinink, Kaye, Jones, van Oosterom, Vendrik, Spaander, and de Pauw, 2714 Spangler, E. F. See Huitfeldt, Spangler, Baron,

and Poirier, 2098

Sparkes, R. S. See Benedict, Srivatsan, Mark, Ba-

nerjee, Sparkes, and Murphree, 4189

Spector, A. A., and Burns, C. P. Biological and Therapeutic Potential of Membrane Lipid Modification in Tumors, 4529

Speizer, L. A., Atherton, S. E., and Sando, J. J. Differences between Human and Goose Erythrocytes in Response to Phorbol Esters an Expression of Phorbol Ester Receptors. 4830

Spengler, B. A. See DeClerck, Bomann, Spengler, and Biedler, 6505; Jongsma, Spengler, Van der Bliek, Borst, and Biedler, 2875; Rettig, Spengler, Chesa, Old, and Biedler, 1383

Spiegel, A. See Jensen, Stelman, and Spiegel, 353 Spies, S. M. See Zimmer, Kazikiewicz, Rosen, and

Spies, 1691

Spigelman, Z., Dowers, A., Kennedy, S., DiSorbo, D., O'Brien, M., Barr, R., and McCaffrey, R. Antiproliferative Effects of Suramin on Lymphoid Cells, 4694

Spindler, C. D. See Saunders, Tan, Spindler, and Robins, 1022

Spitler, L. E. See Harkonen, Stoudemire, Mischak, Spitler, Lopez, and Scannon, 1377

Spitler, L. E., del Rio, M., Khentigan, A., Wedel, N. I., Brophy, N. A., Miller, L. L., Harkonen, W. S., Rosendorf, L. L., Lee, H. M., Mischak, R. P., Kawahata, R. T., Stoudemire, J. B., Frad-kin, L. B., Bautista, E. E., and Scannon, P. J. Therapy of Patients with Malignant Melanoma Using a Monoclonal Antimelanoma Antibody-Ricin A Chain Immunotoxin, 1717

Spitzer, G. See Lee, Pathak, Hopwood, Tomasovic, Mullins, Baker, Spitzer, and Neidhart. 6349; Singletary, Baker, Spitzer, Tucker, Tomasovic, Brock, Ajani, and Kelly, 403

Splinter, T. A. W. See Haegele, Splinter, Romijn, Schechter, and Sjoerdsma, 890

Spreafico, F. See Alessandri, Filippeschi, Sinibaldi, Mornet, Passera, Spreafico, Cappa, and Gullino, 4243

Spriggs, D., Robbins, G., Ohno, Y., and Kufe, D. Detection of 1-β-D-Arabinofuranosylcytosine Incorporation into DNA in Vivo, 6532

Spurgeon, T. L. See Kogekar, Spurgeon, Simon, and Smith, 2083

Spyratos, F. See Perrot-Applanat, Groyer-Picard, Lorenzo, Jolivat, Hai, Pallud, Spyratos, and Milgrom, 2652

Squartini, F. See Castagna, Nuti, and Squartini, 902

Squire, R. A. See Anderson-Berg, Squire, and Strand, 1905

Squires, S., Elliott, G. C., and Johnson, R. T. Slow DNA Rejoining in Ultraviolet-irradiated Human Diploid Fibroblasts Treated with the Mitogens Trypsin and Insulin, 4378

Srivastava, P. K. See Palladino, Srivastava, Oettgen, and DeLeo, 5074

Srivatsan, E. S. See Benedict, Srivatsan, Mark, Banerjee, Sparkes, and Murphree, 4189

Staal, G. E. J., Kalff, A., Heesbeen, E. C., van Veelen, C. W. M., and Rijksen, G. Subunit Composition, Regulatory Properties, and Phosphorylation of Phosphofructokinase from Human Gliomas, 5047

Stackpole, C. W. See Rappaport, Alterman, Brav-erman, and Stackpole, 5391

Staecker, J. L. See Sawada, Staecker, and Pitot,

Staffeldt, E. F. See Russell, Staffeldt, Wright, Prapuolenis, Carnes, and Peraino, 1130 Stabel, R. A. See Waibel, O'Hara, and Stabel, 3766

Stamato, T. D., Peters, B., Patil, P., Denko, N., Weinstein, R., and Giaccia, A. Isolation and Characterization of Bleomycin-sensitive Chinese Hamster Ovary Cells, 1588
Stampfl, S. See Winkelhake, Stampfl, and Zim-

merman, 3948

Stanbuck, H. See Peters, Henner, Grochow, Olsen, Edwards, Stanbuck, Stuart, Gockerman, Moore, Bast, Seigler, and Colvin, 6402

Stanley, J. A. See Delic, Harwood, and Stanley, 1344

Starzl, T. E. See Francavilla, Ove, Polimeno, Coetzee, Makowka, Rose, Van Thiel, and Starzl, 5600

Stathopoulos, E. See Epstein, Marder, Winter, Stathopoulos, Chen, Parker, and Taylor, 830

Steel, G. G. See Kelland, Burgess, and Steel, 4947 Steerenberg, P. A. See Storm, Roerdink, Steerenberg, de Jong, and Crommelin, 3366

Stein, G. See Preisler, Sato, Li, Stein, and Stein, 3747

Stein, J. See Preisler, Sato, Li, Stein, and Stein, 3747

Stein, T. P. See Inculet, Stein, Peacock, Leskiw, Maher, Gorschboth, and Norton, 4746

Steinberg, S. M. See Park, Kramer, Steinberg, Carmichael, Collins, Minna, and Gazdar, 5875; Swain, Sorace, Bagley, Danforth, Bader, Wesley, Steinberg, and Lippman, 3889

Steiner, Z. See Rabinowich, Cohen, Bruderman, Steiner, and Klajman, 173

Steinert, B. W. See Menter, Steinert, Sloane, Gundlach, O'Gara, Marnett, Diglio, Walz, Taylor, and Honn, 6751; Menter, Steinert, Sloane, Taylor, and Honn, 2425

Steinherz, L. See Tan, Hancock, Steinherz, Bacha, Steinherz, Luks, Winick, Meyers, Mondora, Dantis, Niedzwiecki, and Stevens, 2990

Steinherz, P. See Tan, Hancock, Steinherz, Bacha, Steinherz, Luks, Winick, Meyers, Mondora, Dantis, Niedzwiecki, and Stevens, 2990

Steller, E. P. See Stevenson, Keenan, Woodhouse, Ottow, Miller, Steller, Foon, Abrams, Beman, Larson, and Sugarbaker, 6100

Steller, M. A. See Parker, Keenan, Dower, Steller, Holton, Sieber, and Weinstein, 2073

Stelman, G. J. See Jensen, Stelman, and Spiegel,

Stepan, K. See Pour and Stepan, 5699

Stephenson, R. A., James, B. C., Gay, H., Fair, W. R., Whitmore, W. F., Jr., and Melamed, M. R. Flow Cytometry of Prostate Cancer: Relationship of DNA Content to Survival, 2504

Steplewski, Z. See Rodeck, Herlyn, Herlyn, Molthoff, Atkinson, Varello, Steplewski, and Koprowski, 3692; Tempero, Uchida, Takasaki, Burnett, Steplewski, and Pour, 5501; Thurin, Thurin, Kimoto, Herlyn, Lubeck, Elder, Smereczynska, Karlsson, Clark, Steplewski, and Koprowski, 1229

Stern, R. See Rutka, Giblin, Apodaca, DeArmond, Stern, and Rosenblum, 3515

Sternberg, S. S. See Fanucchi, Kinahan, Samuels, Hancock, Chou, Niedzwiecki, Farag, Vidal,

DeGraw, Sternberg, Sirotnak, and Young, 2334 Stetson, P. L. See Wollner, Knutsen, Ullrich, Chrisp, Juni, Andrews, Tuscan, Stetson, and Ensminger, 3285

Steuber, C. P. See Findley, Steuber, Krischer, and Ragab, 4225 Stevens, M. A. See Rozhin, Robinson, Stevens,

Lah, Honn, Ryan, and Sloane, 6620

Stevens, M. F. G., Hickman, J. A., Langdon, S. P. Chubb, D., Vickers, L., Stone, R., Baig, G., Goddard, C., Gibson, N. W., Slack, J. A., Newton, C., Lunt, E., Fizames, C., and Lavelle, F. Antitumor Activity and Pharmacokinetics in Mice 8-Carbamoyl-3-methyl-imidazo[5,1-d]-1,2,3,5-tetrazin-4(3H)-one (CCRG 81045; M & B 39831), A Novel Drug with Potential as an Alternative to Dacarbazine, 5846

Stevens, V. L. See Girard, Stevens, Blackshear,

Merrill, Wood, and Kuo, 2892 Stevens, Y-W. See Tan, Hancock, Steinherz, Bacha, Steinherz, Luks, Winick, Meyers, Mondora, Dantis, Niedzwiecki, and Stevens, 2990

Stevenson, H. C., Keenan, A. M., Woodhouse, C., Ottow, R. T., Miller, P., Steller, E. P., Foon, K. A., Abrams, P. G., Beman, J., Larson, S. M., and Sugarbaker, P. H. Fate of \(\gamma\)-Interferon-activated Killer Blood Monocytes Adoptively Transferred into the Abdominal Cavity of Patients with Peritoneal Carcinomatosis, 6100

Stevenson, M. A., Calderwood, S. K., and Hahn, G. M. Effect of Hyperthermia (45°C) on Calcium Flux in Chinese Hamster Ovary HA-1 Fibroblasts and Its Potential Role in Cytotoxicity and

Heat Resistance, 3712

Stewart, F. A., Luts, A., and Begg, A. C. Tolerance of Previously Irradiated Mouse Kidneys to cis-Diamminedichloroplatinum(II), 1016

Stewart, K. See Yamori, Kimura, Stewart, Ota, Cleary, and Irimura, 2741

Stewart, R. See Kornstein, Stewart, and Elder,

1411

Stewart, V. J. See Hindenburg, Baker, Gleyzer, Stewart, Case, and Taub, 1421

Stigbrand, T. I. See Hirano, Domar, Yamamoto, Brehmer-Andersson, Wahren, and Stigbrand,

Stitely, S. See Blatt and Stitely, 1749

St. John, M. See Birt, Julius, Hasegawa, St. John, and Cohen, 1244

Stockert, R. J. See Paietta, Hubbard, Wiernik, Diehl, and Stockert, 2461

Stolfi, R. L., Sawyer, R. C., and Martin, D. S. Failure of L-Histidinol to Improve the Therapeutic Efficiency of 5-Fluorouracil against Murine Breast Tumors, 16

Stolley, P. D. See Brinton, Tashima, Lehman, Levine, Mallin, Savitz, Stolley, and Fraumeni, 1706: Yu, Henderson, Austin, Delzell, Cole, Grufferman, Levine, Morrison, and Stolley, 654

Stone, B. A. See Brown, Davis, Saltzgaber-Muller, Simon, Ho, Shaw, Stone, Sands, and Moore,

Stone, B. J. See Malker, McLaughlin, Silverman, Ericsson, Stone, Weiner, Malker, and Blot, 6763; McLaughlin, Malker, Malker, Stone, Ericsson, Blot, Weiner, and Fraumeni, 287

Stone, K. R. See Bear, Clayman, Elbers, Limas, Wang, Stone, Gebhard, Prigge, and Palmer, 3856; Crouch, Stone, Bloch, and McDivitt, 6086 Stone, R. See Stevens, Hickman, Langdon, Chubb,

Vickers, Stone, Baig, Goddard, Gibson, Slack, Newton, Lunt, Fizames, and Lavelle, 5846 Stoner, G. D. See Branstetter, Stoner, Schut, Sen-

itzer, Conran, and Goldblatt, 348 Storer, B. See Schiller, Bittner, Storer, and Willson 2809

Storm, G., Roerdink, F. H., Steerenberg, P. A., de ng, W. H., and Crommelin, D. J. A. Influence of Lipid Composition on the Antitumor Activity Exerted by Doxorubicin-containing Liposomes in a Rat Solid Tumor Model, 3366

Stoter, G., Sylvester, R., Sleijfer, D. T., ten Bokkel Huinink, W. W., Kaye, S. B., Jones, W. G., van Oosterom, A. T., Vendrik, C. P. J., Spaander, P., and de Pauw, M. Multivariate Analysis of Prognostic Factors in Patients with Disseminated Nonseminomatous Testicular Cancer: Results from a European Organization for Research on Treatment of Cancer Multiinstitutional Phase III Study, 2714

Stoudemire, J. B. See Harkonen, Stoudemire. Mischak, Spitler, Lopez, and Scannon, 1377; Spitler, del Rio, Khentigan, Wedel, Brophy, Miller, Harkonen, Rosendorf, Lee, Mischak, Kawahata, Stoudemire, Fradkin, Bautista, and Scannon, 1717

Stout, D. L., and Becker, F. F. Heme Enzyme Patterns in Rat Liver Nodules and Tumors, 963

Stowers, S. J., Glover, P. L., Reynolds, S. H., Boone, L. R., Maronpot, R. R., and Anderson, M. W. Activation of the K-ras Protooncogene in Lung Tumors from Rats and Mice Chronically Exposed to Tetranitromethane, 3212

Stranahan, P. L. See Pettijohn, Stranahan, Due, Rønne, Sørensen, and Olsson, 1161

Strand, M. See Anderson-Berg, Squire, and Strand, 1905

Strauman, J. J. See Marcus, Dutcher, Paietta, Ciobanu, Strauman, Wiernik, Hutner, Frank, and Baker, 4208; Wiernik, Schwartz, Strauman, Dutcher, Lipton, and Paietta, 2486

Strickland, P. See Daniel, Silberstein, and Strickland, 6052

Strickland, P. T., and Swartz, R. P. Inheritance of Susceptibility to Phototumorigenesis and Persistent Hyperplasia in F1 Hybrids between SEN-CAR Mice and BALB/c or C57BL/6 Mice, 6294

Strife, A. See Wisniewski, Strife, Atzpodien, and Clarkson, 4788

Stromberg, K. See Huot, Nardone, and Stromberg, 383

383
Stromberg, K., Hudgins, W. R., Dorman, L. S., Henderson, L. E., Sowder, R. C., Sherrell, B. J., Mount, C. D., and Orth, D. N. Human Brain Tumor-associated Urinary High Molecular Weight Transforming Growth Factor: A High Molecular Weight Form of Epidermal Growth

Factor, 1190

Strong, L. C. See Little, Nove, Dahlberg, Troilo,

Nichols, and Strong, 4229

Struck, R. F., Alberts, D. S., Horne, K., Phillips, J. G., Peng, Y-M., and Roe, D. J. Plasma Pharmacokinetics of Cyclophosphamide and Its Cytotoxic Metabolites after Intravenous versus Oral Administration in a Randomized, Crossover Trial, 2723

Stuart, A. See Peters, Henner, Grochow, Olsen, Edwards, Stanbuck, Stuart, Gockerman, Moore, Bast, Seigler, and Colvin, 6402

Stuart, R. K. See Szeluga, Stuart, Brookmeyer, Utermohlen, and Santos, 3309

Studer, H. See Smeds, Peter, Jörtsö, Gerber, and Studer, 1646

Stuehr, D. J., and Marletta, M. A. Synthesis of Nitrite and Nitrate in Murine Macrophage Cell Lines, 5590 Stukart, M. J., Rijnsent, A., and Roos, E. Induction

of Tumoricidal Activity in Isolated Rat Liver Macrophages by Liposomes Containing Recombinant Rat γ-Interferon Supplemented with Lipopolysaccharide or Muramyldipeptide, 3880

Stupecky, M. See Meador, Sweet, Stupecky, Wetzel, Murray, Gupta, and Slater, 6216

Styles, J. M. See Tilby, Styles, and Dean, 1542 Suarato, A. See Barbieri, Giuliani, Bordoni, Casazza, Geroni, Bellini, Suarato, Gioia, Penco, and Arcamone, 4001

Subbarao, V. See Rao, Mangino, Usman, Subbarao, Scarpelli, Reddy, and Reddy, 1657

Subrahmanyan, V. See Rushmore, Ghazarian, Subrahmanyan, Farber, and Ghoshal, 6731

Suda, J. See Komatsu, Suda, Suda, and Miura, 6371

Suda, K., Sakamoto, S., Hida, K., Kano, Y., Tak-aku, F., and Miura, Y. Electrofocusing Pattern of Fucosyltransferase Activity in Human Leukemic Cells, 2782

Suda, T. See Kasukabe, Honma, Hozumi, Suda, and Nishii, 567

Suda, T. See Komatsu, Suda, Suda, and Miura,

Sugarbaker, P. H. See Colcher, Esteban, Carrasquillo, Sugarbaker, Reynolds, Bryant, Larson, and Schlom, 1185, 4218; Park, Oie, Sugarbaker, Henslee, Chen, Johnson, and Gazdar, 6710; Stevenson, Keenan, Woodhouse, Ottow, Miller, Steller, Foon, Abrams, Beman, Larson, and Sugarbaker, 6100

Sugarman, B. J. See Lewis, Aggarwal, Eessalu, Sugarman, and Shepard, 5382

Sugarman, B. J., Lewis, G. D., Eessalu, T. E., Aggarwal, B. B., and Shepard, H. M. Effects of Growth Factors on the Antiproliferative Activity of Tumor Necrosis Factors, 780

Sugie, S. See Reddy, Sugie, Maruyama, El-Bayoumy, and Marra, 5901

Sugimachi, K. See Kuda, Yasumoto, Yano, Naka-hashi, Sugimachi, and Nomoto, 2199; Mat-suoka, Sugimachi, Ueo, Kuwano, Nakano, and Nakayama, 4134; Yasumoto, Miyazaki, Nagashima, Ishida, Kuda, Yano, Sugimachi, and Nomoto, 2184

Sugimoto, T. See Matsumura, Sugimoto, Sawada, Amagai, Negoro, and Kemshead, 2924

Sugimoto, T., Sawada, T., Matsumura, T., Horii, Y., Kemshead, J. T., Suzuki, Y., Okada, M., Tagaya, O., and Hino, T. Morphological Differentiation of Human Neuroblastoma Cell Lines by a New Synthetic Polyprenoic Acid (E5166), 5433

Sugimoto, Y., Oh-hara, T., Watanabe, M., Saito, H., Yamori, T., and Tsuruo, T. Acquisition of Metastatic Ability in Hybridomas between Two Low Metastatic Clones of Murine Colon Adenocarcinoma 26 Defective in Either Plateletaggregating Activity or in Vivo Growth Poten-

Sugimoto, Y., and Tsuruo, T. DNA-mediated Transfer and Cloning of a Human Multidrug-resistant Gene of Adriamycin-resistant My-elogenous Leukemia K562, page 2620 Sugita, M. See Kikuchi, Kizawa, Oomori, Miyau-

chi, Kita, Sugita, Tenjin, and Kato, 592

Sugiyama, S. See Ogawa, Kondo, Sugiyama, Ogawa, Satake, and Ozawa, 1239

Sugiyama, T. See Gohji, Maeda, Sugiyama, and Kamidono, 4941

Suissa, S. See Glickman, Suissa, and Fleiszer. 4766

Sulkowski, E. See Andersson, Sulkowski, and Porath. 3624

Sullivan, D. M., Latham, M. D., and Ross, W. E. Proliferation-dependent Topoisomerase II Content as a Determinant of Antineoplastic Drug Action in Human, Mouse, and Chinese Hamster Ovary Cells, 3973

Sumii, H. See Oda, Watanabe, Sumii, Nakamura. Arakaki, and Shimotohno, 2077

n, S. See Hunter, Broadway, Sun, Niell, and Mauer, 2737

Sundqvist, K. See Willey, Grafstrom, Moser, Ozanne, Sundqvist, and Harris, 2045 Sunkara, P. S., and Rosenberger, A. L. Antimeta-

static Activity in DL-α-Difluoromethylornithine, an Inhibitor of Polyamine Biosynthesis, in Mice, 011

Sur, P., Fernandes, D. J., Kute, T. E., and Capizzi, R. L. L-Asparaginase-induced Modulation of Methotrexate Polyglutamylation in Murine Leukemia L5178Y, 1313

Sutherland, R., Buchegger, F., Schreyer, M., Vacca, A., and Mach. J-P. Penetration and Binding of Radiolabeled Anti-Carcinoembryonic Antigen Monoclonal Antibodies and Their Antigen Binding Fragments in Human Colon Multicel-

Sutherland, R. L. See Reddel and Sutherland, 5323 Suttle, D. P. See Beck, Cirtain, Danks, Felsted, Safa, Wolverton, Suttle, and Trent, 5455

lular Tumor Spheroids, 1627

Suzuki, H. See Konno, Suzuki, Tadakuma, Kumai, Yasuda, Kubota, Ohta, Nagaike, Hosokawa, Ishibiki, Abe, and Saito, 4471

Suzuki, H., Kim, S. H., Tahara, M., Okazaki, K., Okabe, T., Wu, R. T., and Tanaka, N. Potentiation of Cytotoxicity of 1-β-D-Arabinofuranosylcytosine for K562 Human Leukemic Cells by Cadeguomycin, 713

Suzuki, N., Kondo, K., Tominaga, S., Kuroki, M., and Matsuoka, Y. Heterogeneity of Circulating Carcinoembryonic Antigen Analyzed by Sandwich-Enzyme Immunoassays with Different Specificities, 4782

Suzuki, Y. See Sugimoto, Sawada, Matsumura, Horii, Kemshead, Suzuki, Okada, Tagaya, and Hino, 5433

Swain, S. M., Sorace, R. A., Bagley, C. S., Danforth, D. N., Jr., Bader, J., Wesley, M. N., Steinberg, S. M., and Lippman, M. E. Neoadjuvant Chemotherapy in the Combined Modality Approach of Locally Advanced Nonmetastatic Breast Cancer, 3889

Swartz, R. P. See Strickland and Swartz, 6294 Swartzendruber, D. E. See Retsky, Wardwell, Swartzendruber, and Headley, 4982 Sweeley, C. C. See Moskal, Lockney, Marvel,

Trosko, and Sweeley, 787

Sweeney, D. J. See Grieg, Momma, Sweeney, Smith, and Rapoport, 1571 Sweet, P. See Meador, Sweet, Stupecky, Wetzel,

Murray, Gupta, and Slater, 6216

Swenberg, J. A. See Belinsky, Walker, Maronpot, Swenberg, and Anderson, 6057; Belinsky, White, Devereux, Swenberg, and Anderson, 1143; Boucheron, Richardson, Morgan, and Swenberg, 1577

Swenson, B. See Haagensen, Metzgar, Sawlivich, Swenson, Davis, Newman, Zamcheck, Wells, and Hansen, 5606

Swindell, R. See Howell, Harland, Barnes, Baildam, Wilkinson, Hayward, Swindell, and Sellwood, 300; Howell, Harland, Barnes, Hayward, Redford, Swindell, and Sellwood, 296

Swope, V. B. See Abdel-Malek, Swope, Amornsiripanitch, and Nordlund, 3141

Sylvester, R. See Stoter, Sylvester, Sleijfer, ten Bokkel Huinink, Kaye, Jones, van Oosterom, Vendrik, Spaander, and de Pauw, 2714

Szeluga, D. J., Stuart, R. K., Brookmeyer, R., Uter-mohlen, V., and Santos, G. W. Nutritional Support of Bone Marrow Transplant Recipients: A Prospective, Randomized Clinical Trial Comparing Total Parenteral Nutrition to an Enteral Feeding Program, 3309

Szpak, C. A. See Thor, Muraro, Gorstein, Ohuchi, Viglione, Szpak, Johnston, and Schlom, 505

Tadakuma, T. See Konno, Suzuki, Tadakuma, Kumai, Yasuda, Kubota, Ohta, Nagaike, Hoso-kawa, Ishibiki, Abe, and Saito, 4471

Taetle, R. See Kelner, McMorris, Beck, Zamora, and Taetle, 3186

Taetle, R., and Honeysett, J. M. Effects of Monoclonal Anti-Transferrin Receptor Antibodies on in Vitro Growth of Human Solid Tumor Cells, 2040

Taffet, S. M. See Yashruti, Beriesteh, and Taffet,

Tagawa, Y. See Fukushima, Sakata, Tagawa, Shibata, Hirose, and Ito, 2113; Shirai, Tagawa, Fukushima, Imaida, and Ito, 6726

Tagaya, O. See Sugimoto, Sawada, Matsumura, Horii, Kemshead, Suzuki, Okada, Tagaya, and Hino, 5433

Taha, M. See Medina, Schwartz, Taha, Oborn, and Smith, 4686

Tahara, M. See Suzuki, Kim, Tahara, Okazaki, Okabe, Wu, and Tanaka, 713

Tainsky, M. A., Shamanski, F., Blair, D., and Giovanella, B. C. Causal Role for an Activated Nras Oncogene in the Induction of Tumorigenicity Acquired by a Human Cell Line, 3235

Takagishi, U. See Itoh, Yokota, Takagishi, Hatta, and Okamoto, 5560

Takahashi, H., Herlyn, D., Atkinson, B., Powe, J., Rodeck, U., Alavi, A., Bruce, D. A., and Ko-prowski, H. Radioimmunodetection of Human Glioma Xenografts by Monoclonal Antibody to Enidermal Growth Factor Recentor, 3847

Takahashi, K. See Umezawa, Nishikawa, Shibasaki, Takahashi, Nakamura, and Takeuchi, 3062 Takahashi, M. See Fukushima, Kawaguchi, Nishida, Juni, Yamashita, Takahashi, and Nakano, 1930

Takahashi, S. See Sato, Yagihashi, Okubo, Torigoe, Takahashi, Sato, and Kikuchi, 3147

Takaku, F. See Suda, Sakamoto, Hida, Kano, Takaku, and Miura, 2782; Watanabe, Okabe, Fujisawa, Takaku, and Fukayama, 960; Watanabe, Okabe, Fujisawa, Takaku, Hirohashi, and Shimosato, 826

Takakura, K. See Matsunaga, Kuroki, Higuchi, Arakawa, Takakura, Okamoto, and Matsuoka,

Takakura, Y. See Atsumi, Endo, Kakutani, Takakura, Hashida, and Sezaki, 5546

Takamizawa, H. See Kawata, Sekiya, Takamizawa, Muramatsu, and Okumura, 2288 Takano, A. See Shiratori, Soma, Maruyama, Sato,

Takano, and Sato, 6806
Takasaki, H. See Tempero, Uchida, Takasaki, Burnett, Steplewski, and Pour, 5501

Takatsuki, K. See Sakai, Hattori, Sagawa, Yokoyama, and Takatsuki, 5572

Takayama, S. See Maseki, Kaneko, Sakurai, Kurihara, Sampi, Shimamura, and Takayama,

Takayanagi, G. See Nitta, Takayanagi, Kawauchi, and Hakomori, 4877

Takeda, T. See Kaneko, Kanda, Maseki, Sakurai, Tsuchida, Takeda, Okabe, and Sakurai, 311

Takeda, Y. See Endo, Kato, Takeda, Saito, Umemoto, Kishida, and Hara, 1076

Takeichi, N. See Fujii, Yuki, Takeichi, Kobayashi, and Miyazaki, 1668; Itaya, Yamagiwa, Okada, Oikawa, Kuzumaki, Takeichi, Hosokawa, and Kobayashi, 3136; Matsuoka, Takeichi, and Kobayashi, 3410

Takemura, T. See Tsuji, Yoshioka, Ogasawara, Takemura, and Isojima. 3543 Takeo, S. See Nagashima, Yasumoto, Nakahashi,

Takeo, Yano, and Nomoto, 5497 Takesue, B. Y. See Bartik, Takesue, and Mokyr,

Taketomi, T. See Hattori, Uemura, Ogata, Katsuyama, Taketomi, and Kanfer, 1968

Takeuchi, J. See Sobue, Takeuchi, Yoshida, Akao, Fukatsu, Nagasaka, and Nakashima, 160
Takeuchi, M. See Kunimoto, Nitta, Tanaka, Uehara, Baba, Takeuchi, Yokokura, Sawada, Miyasaka, and Mutai, 5944

Takeuchi, T. See Umezawa, Nishikawa, Shibasaki, Takahashi, Nakamura, and Takeuchi, 3062 Takeuchi, Y. See Mori, Kurata, Takeuchi, To-yama, Makino, and Fukushima, 3492

Takimoto, M. See Chiba, Oikawa, Naiki, Takimoto, Miyoshi, Mizuno, Yamashina, Yamag-iwa, and Kobayashi, 1815

Takita, H. See Reddy, Piccione, Takita, and Bankert, 2456

Talkad, V. D. See Fernandez-Pol, Klos, Hamilton, and Talkad, 4260

Talmadge, J. E., Phillips, H., Schindler, J., Tribble, H., and Pennington, R. Systematic Preclinical Study on the Therapeutic Properties of Recombinant Human Interleukin 2 for the Treatment

of Metastatic Disease, 5725
Talmadge, J. E., Tribble, H. R., Pennington, R. W.,
Phillips, H., and Wiltrout, R. H. Immunomodulatory and Immunotherapeutic Properties of Recombinant y-Interferon and Recombinant Tumor Necrosis Factor in Mice, 2563

Talpaz, M. See Maxwell, Kurzrock, Parsons, Talpaz, Gallick, Kloetzer, Arlinghaus, Kouttab, Keating, and Gutterman, 1731 Tam, J. P. See Yeh, Tsai, Chuang, Yeh, Tsai,

Florine, and Tam. 896

Tamano, S. See Fukushima, Shibata, Shirai, Kurata, Tamano, and Imaida, 4821

Tamatani, T. See Onozaki, Tamatani, Hashimoto, and Matsushima, 2397

Tamura, G. See Magae, Hosokawa, Matsuda, Hotta, Hayasaki, Nagai, Ando, Yamasaki, and Tamura, 96

Tamura, S., Fujioka, H., Nakano, T., Hada, T., and Higashino, K. Serum Pseudouridine as a Bio-chemical Marker in Small Cell Lung Cancer,

Tan, C. T. C. See Balis, Patel, Luks, Doherty, Holcenberg, Tan, Reaman, Belasco, Ettinger, Zimm, and Poplack, 4973

Tan, C. T. C., Hancock, C., Steinherz, P., Bacha, D. M., Steinherz, L., Luks, E., Winick, N., Mey-ers, P., Mondora, A., Dantis, E., Niedzwiecki, D., and Stevens, Y-W. Phase I and Clinical Pharmacological Study of 4-Demethoxydaunorubicin (Idarubicin) in Children with Advanced Cancer, 2990

Tan, M-T. See Saunders, Tan, Spindler, and Robins, 1022

Tan, R-s. See Nutter, Grill, Li, Tan, and Cheng,

Tan, Y. See Ko, Park, Song, Patten, Tan, Hah, Yang, and Gelboin, 3101
Tanaka, K., Koga, Y., Taniguchi, K., and Nomoto,

K. T-Cell Recruitment from the Thymus to the Spleen in Tumor Bearing Mice: Phenotypical Alteration and Recruitment of Thymocytes Raised in a Tumor Bearing State, 2136

Tanaka, M., Kimura, K., and Yoshida, S. Inhibition of Mammalian DNA Polymerases by Recombinant α -Interferon and γ -Interferon, 5971

Tanaka, N. See Suzuki, Kim, Tahara, Okazaki, Okabe, Wu, and Tanaka, 713

Tanaka, T. See Hirota, Hirota, Sanno, and Tanaka, 3742

Tanaka, T. See Kunimoto, Nitta, Tanaka, Uehara, Baba, Takeuchi, Yokokura, Sawada, Miyasaka, and Mutai, 5944

Tanigawara, C. See Hiwasa, Tanigawara, and Sakiyama, 953

Taniguchi, H. See Iishi, Tatsuta, Baba, Okuda, and Taniguchi, 4890; Tatsuta, Iishi, Yamamura, and Taniguchi, 111

Taniguchi, K. See Tanaka, Koga, Taniguchi, and Nomoto, 2136 Taniguchi, S. See Kuroiwa, Aoki, Taniguchi, Ha-

suda, and Baba, 3618 Tanikawa, S. See Nara, Yamashita, Murohashi,

Tanikawa, Imai, and Aoki, 2376

Taningher, M. See Russo, Taningher, Pala, Pisano,

Pedemonte, De Angeli, Carlone, Santi, and Parodi, 2866

Tanizawa, O. See Terakawa, Hayashida, Shimizu, Ikegami, Wakimoto, Aono, Tanizawa, Matsu-moto, and Nishida, 1918

Tannenbaum, S. R. See Bryant, Skipper, Tannelbaum, and Maclure, 602

Tanney, L. E. See Leonard, Johnson, Felsen, Tanney, Royston, and Dillman, 2899

Tannock, I. See Rotin, Wan, Grinstein, and Tannock, 1497

Taparowsky, E. J., Heaney, M. L., and Parsons, J. T. Oncogene-mediated Multistep Transforma-tion of C3H10T1/2 Cells, 4125

Taraboletti, G. See Wewer, Taraboletti, Sobel, Albrechtsen, and Liotta, 5691

Tarella, C. See Ferrero, Pregno, Tarella, Ruscetti, Pileri, and Gallo, 6413

Tashima, K. T. See Brinton, Tashima, Lehman, Levine, Mallin, Savitz, Stolley, and Fraumeni,

Tashjian, A. H., Jr. See Krug and Tashjian, 2243 Tateishi, R. See Mukai, Shinkai, Tateishi, Mori,

and Akedo, 2167

Tatematsu, M., Lee, G., Hayes, M. A., and Farber, E. Progression in Hepatocarcinogenesis: Differences in Growth and Behavior of Transplants of Early and Later Hepatocyte Nodules in the Rat

Tatsukawa, K. See U, Kelley, Ashbaugh, Tatsu-kawa, and Werner, 5678 Tatsuta, M. See Iishi, Tatsuta, Baba, Okuda, and

Taniguchi, 4890

Tatsuta, M., Iishi, H., Yamamura, H., and Taniguchi, H. Enhancement by Propranolol of the Inhibitory Effect of Tetragastrin on Gastric Car-cinogenesis Induced by N-Methyl-N'-nitro-Nnitrosoguanidine in Wistar Rats, 111

Taub, R. N. See Baker, Kanani, Brockhausen, Schachter, Hindenburg, and Taub, 2763; Hin-denburg, Baker, Gleyzer, Stewart, Case, and

Taub, 1421

Tavares, L., Roneker, C., Johnston, K., Lehrman, S. N., and de Noronha, F. 3'-Azido-3'-deoxy-thymidine in Feline Leukemia Virus-infected Cats: A Model for Therapy and Prophylaxis of AIDS, 3190

Taylor, C. R. See Epstein, Marder, Winter, Stathopoulos, Chen, Parker, and Taylor, 830 Taylor, J. See Augenlicht, Wahrman, Halsey, An-

derson, Taylor, and Lipkin, 6016

Taylor, J. D. See Menter, Steinert, Sloane, Gundlach, O'Gara, Marnett, Diglio, Walz, Taylor, and Honn, 6751; Menter, Steinert, Sloane, Taylor, and Honn, 2425

Taylor-Papadimitriou, J. See Burchell, Gendler, Taylor-Papadimitriou, Girling, Lewis, Millis,

and Lamport, 5476

Tecce, R. See Giacomini, Viora, Tecce, Knowles, Natali, and Ferrone, 5175

Teebor, G. W. See Boorstein, Levy, and Teebor, 4372 Teicher, B. A. See Rosowsky, Wright, Cucchi,

Flatow, Trites, Teicher, and Frei, 5913 Teicher, B. A., Crawford, J. M., Holden, S. A., and

Cathcart, K. N. S. Effects of Various Oxygenation Conditions on the Enhancement by Fluosol-DA of Melphalan Antitumor Activity, 5036

Teicher, B. A., Holden, S. A., and Jacobs, J. L. Approaches to Defining the Mechanism of En-hancement by Fluosol-DA 20% with Carbogen of Melphalan Antitumor Activity, 513

Teicher, B. A., Holden, S. A., Kelley, M. J., Shea T. C., Cucchi, C. A., Rosowsky, A., Henner, W. D., and Frei, E., III Characterization of a Human Squamous Carcinoma Cell Line Resistant to cis-Diamminedichloroplatinum(II), 388

Tempero, M. A., Uchida, E., Takasaki, H., Burnett, D. A., Steplewski, Z., and Pour, P. M. Relation-ship of Carbohydrate Antigen 19-9 and Lewis Antigens in Pancreatic Cancer, 5501

Temple, C., Jr. See Bowdon, Waud, Wheeler,

Hain, Dansby, and Temple, 1621 ten Bokkel Huinink, W. W. See Stoter, Sylvester, Sleijfer, ten Bokkel Huinink, Kaye, Jones, van Oosterom, Vendrik, Spaander, and de Pauw,

Tenjin, Y. See Kikuchi, Kizawa, Oomori, Miyauchi, Kita, Sugita, Tenjin, and Kato, 592 Tephly, T. R. See Green and Tephly, 2028

Terakawa, N., Hayashida, M., Shimizu, I., Ikegami, H., Wakimoto, H., Aono, T., Tanizawa, O., Matsumoto, K., and Nishida, M. Growth Inhibition by Progestins in a Human Endometrial Cancer Cell Line with Estrogen-independent

Progesterone Receptors, 1918 Terasaki, T., Shimosato, Y., Nakajima, T., Tsu-muraya, M., Ichinose, H., Nagatsu, T., and Kato, K. Reversible Squamous Cell Characteristics In duced by Vitamin A Deficiency in a Small Cell Lung Cancer Cell Line. 3533

Tereba, A. See Goren, Ahmed, and Tereba, 1924 Terheggen, P. M. A. B., Floot, B. G. J., Scherer, E., Begg, A. C., Fichtinger-Schepman, A. M. J., and den Engelse, L. Immunocytochemical Detection of Interaction Products of cis-Diamminedichloroplatinum(II) and cis-Diammine (1,1-cyclobutanedicarboxylato)platinum(II) with DNA in Rodent Tissue Sections, 6719

Ternell, M., Moldawer, L. L., Lönnroth, C., Gelin, J., and Lundholm, K. G. Plasma Protein Synthesis in Experimental Cancer Compared to Paraneoplastic Conditions, Including Monokine Administration, 5825

Terrana, B., Rusciano, D., and Pacenti, L. Organ Colonization Pattern of Retinoic Acid-treated and -untreated Mouse Embryonal Carcinoma

F9 Cells, 3791
Theiss, H. W. See Casero, Go, Theiss, Smith, Baylin, and Luk, 3964

Thiede, M. A. See Rodan, Imai, Thiede, Wesolowski, Thompson, Bar-Shavit, Shull, Mann, and Rodan, 4961

Thiesen, H-J., Juhl, H., and Arndt, R. Selective Killing of Human Bladder Cancer Cells by Combined Treatment with A and B Chain Ricin Antibody Conjugates, 419 Thill, C. C. See Reed, Litterst, Thill, Yuspa, and

Poirier, 718

Thilly, W. G. See Kaden, Call, Leong, Komives, and Thilly, 1993
Thirion, J-P. See Sircar, Palkonyay, Rodrigues,

Allaire, Horvath, Thirion, and Weber, 1339 Thomas, D. B., and Karagas, M. R. Cancer in First

and Second Generation Americans, 5771 Thomas, M. See Monet, Thomas, Dautigny, Brami, and Bader, 5116

as, R. M. See Perchellet, Abney, Thomas, Guislain, and Perchellet, 477; Perchellet, Abney, Thomas, Perchellet, and Maatta, 6302

Thomas, T., and Kiang, D. T. Structural Alterations and Stabilization of Rabbit Uterine Estrogen Receptors by Natural Polyamines, 1799

Thompson, C. See Lundgren, Andries, Thompson, and Lucier, 3662

Thompson, C. B. See Ruenitz, Arrendale, George, Thompson, Mokler, and Nanavati, 4015

Thompson, D. See Rodan, Imai, Thiede, Wesolowski, Thompson, Bar-Shavit, Shull, Mann, and Rodan, 4961

Thompson, J. A., Lee, D. J., Cox, W. W., Lindgren, C. G., Collins, C., Neraas, K. A., Dennin, R. A., and Fefer, A. Recombinant Interleukin 2 Toxicity, Pharmacokinetics, and Immunomodula-tory Effects in a Phase I Trial, 4202 hompson, J. C. See Singh, Le, Beauchamp,

Townsend, and Thompson, 5000

Thompson, M. G., Chahwala, S. B., and Hickman. J. A. Inhibition of Human Erythrocyte Inositol Lipid Metabolism by Adriamycin, 2799

Thompson, N. L. See Braun, Goyette, Yaswen, Thompson, and Fausto, 4116

Thompson, P. See Kessel, Thompson, Musselman,

and Chang, 4642
Thomson, D. M. P. See Labateya, Thomson, Durko, Shenouda, Robb, and Scanzano, 1058

Thor, A. See Ohuchi, Horan Hand, Merlo, Fujita, Mariani-Costantini, Thor, Nose, Callahan, and Schlom, 1413

Thor, A., Muraro, R., Gorstein, F., Ohuchi, N., Viglione, M., Szpak, C. A., Johnston, W. W., and Schlom, J. Adjunct to the Diagnostic Dis-tinction between Adenocarcinomas of the Ovary and the Colon Utilizing a Monoclonal Antibody (COL-4) with Restricted Carcinoembryonic Antigen Reactivity, 505

Thorgeirsson, S. S. See Evarts, Nagy, Marsden, and Thorgeirsson, 5469; Huber and Thorgeirsson, 3414; Kessler, Heilman, Cossman, Maguire, and Thorgeirsson, 527; Klinken, Billelo, Bauer, Morse, and Thorgeirsson, 2638; Wirth,

Yuspa, Thorgeirsson, and Hennings, 2831 Thorpe, P. E. See Blakey, Watson, Knowles, and

Thorpe, 947

Thorpe, 9-47
Thorpe, P. E., Wallace, P. M., Knowles, P. P., Relf,
M. G., Brown, A. N. F., Watson, G. J., Knyba,
R. E., Wawrzynczak, E. J., and Blakey, D. C. New Coupling Agents for the Synthesis of Immunotoxins Containing a Hindered Disulfide Bond with Improved Stability in Vivo, 5924

Thorpe, S. M. Immunological Quantitation of Nuclear Receptors in Human Breast Cancer: Relation to Cytosolic Estrogen and Progesterone Receptors, 1830; Monoclonal Antibody Technique for Detection of Estrogen Receptors in Human Breast Cancer: Greater Sensitivity and More Accurate Classification of Receptor Status Than the Dextran-coated Charcoal Method.

Thorpe, S. M., Rose, C., Rasmus ridsen, H. T., Bayer, T., and Keiding, N. Prog-nostic Value of Steroid Hormone Receptors: Multivariate Analysis of Systemically Untreated Patients with Node Negative Primary Breast Cancer, 6126

Thorsen, T. See Lea, Kvinnsland, and Thorsen,

Thrall, D. E., Page, R. L., and McLeod, D. A. Use of Insulation to Reduce Extremity Temperature Nonuniformity during Whole Body Hyperther-

mia in Dogs, 5880
Thurin, J., Thurin, M., Kimoto, Y., Herlyn, M., Lubeck, M. D., Elder, D. E., Smereczynska, M., Karlsson, K-A., Clark, W. M., Jr., Steplewski, Z., and Koprowski, H. Monoclonal Antibodydefined Correlations in Melanoma between Levels of GD2 and GD3 Antigens and Antibodymediated Cytotoxicity, 1229

Thurin, M. See Thurin, Thurin, Kimoto, Herlyn, Lubeck, Elder, Smereczynska, Karlsson, Clark, Steplewski, and Koprowski, 1229

Tien, H. T. See Vassilev, Kanazirska, Charamella, Dimitrov, and Tien, 519

Tilby, M. J., Styles, J. M., and Dean, C. J. Immunological Detection of DNA Damage Caused by Melphalan Using Monoclonal Antibodies,

Tilchen, E. J. See Markovits, Pommier, Kerrigan, Covey, Tilchen, and Kohn, 2050

Tilden, A. B. See Zarcone, Tilden, Friedman, and

Grossi, 2674 Tilden, P. A. See Joshi, Tilden, Jackson, Sharp,

and Brunson, 3551 Timmer-Bosscha, H. See Meijer, Mulder, Timmer-Bosscha, Zijlstra, and de Vries, 4613

Tindall, D. J. See Rowley and Tindall, 2955 Tinelli, S. See Capranico, Riva, Tinelli, Dasdia, and Zunino, 3752

Tisdale, M. J. See Beck and Tisdale, 5919 Tissot, R. G., Beattie, C. W., and Amoss, M. S., Jr.

Inheritance of Sinclair Swine Cutaneous Malignant Melanoma, 5542 Tobes, M. C. See Jaques, Tobes, and Sisson, 3920

Todo, S. See Esumi, Todo, and Imashuku, 2129 Toge, T. See Noso, Niimi, Nishiyama, Hirabayashi, Toge, Niimoto, and Hattori, 6418

Tokuda, K. See Evans, Bodell, Tokuda, Doane-Setzer, and Smith, 2525

a, K., Nakamura, Y., Sakata, K., Fujimo K., Ohkubo, M., Sawada, K., and Sakiyama, S. Enhanced Expression of a Glyceraldehyde-3-phosphate Dehydrogenase Gene in Human Lung Cancers, 5616

Tomasovic, B. See Lee, Pathak, Hopwood, Tomasovic, Mullins, Baker, Spitzer, and Neidhart, 6349; Singletary, Baker, Spitzer, Tucker, To-masovic, Brock, Ajani, and Kelly, 403

Tomatis, L. See Hall, Inskip, Loik, Tomatis, Day, O'Conor, Bosch, Muir, Parkin, Muñoz, Green-wood, Whittle, Ryder, Oldfield, N'jie, Smith, and Coursaget, 5782

Tominaga, S. See Suzuki, Kondo, Tominaga, Kuroki, and Matsuoka, 4782

Tonini, G. P., Radzioch, D., Gronberg, A., Clayton, M., Blasi, E., Penetton, G., and Varesio, L. Erythroid Differentiation and Modulation of cmyc Expression Induced by Antineoplastic Drugs in the Human Leukemic Cell Line K562, 4544

Torelli, G., Venturelli, D., Coló, A., Zanni, C., Selleri, L., Moretti, L., Calabretta, B., and To-

relli, U. Expression of c-myb Protooncogene and Other Cell Cycle-related Genes in Normal and Neoplastic Human Colonic Mucosa, 5266

Torelli, U. See Torelli, Venturelli, Coló, Zanni, Selleri, Moretti, Calabretta, and Torelli, 5266 Torhorst, J. See Reubi, Maurer, von Werder, Tor-

horst, Klijn, and Lamberts, 551 Torigoe, T. See Sato, Yagihashi, Okubo, Torigoe, Takahashi, Sato, and Kikuchi, 3147

Torizuka, K. See Matsuoka, Nakashima, Endo, Yoshida, Kunimatsu, Sakahara, Koizumi, Nakagawa, Yamaguchi, and Torizuka, 6335 Tormey, D. C. See Jordan, Fritz, and Tormey, 624,

4517; Trump, Tutsch, Willson, Remick, Simon, Alberti, Grem, Koeller, and Tormey, 3895

Torrance, P. M. See Hazelton, Houghton, Parham, Douglass, Torrance, Holt, and Houghton, 4501: Houghton, Houghton, Germain, and Torrance,

Totani, K. See Yamashita, Totani, Kuroki, Matsuoka, Ueda, and Kobata, 3451
Toth, J. See Mobbs, Johnson, DeSombre, Toth,

and Hughes, 2645

Townes, P. L. See Reale, Griffin, Compton, Graham, Townes, and Bogden, 3199

Townsend, C. M., Jr. See Singh, Le, Beauchamp, Townsend, and Thompson, 5000

Toyama, M. See Mori, Kurata, Takeuchi, Toyama, Makino, and Fukushima, 3492 Tracy, R. P. See Mackay, Tracy, and Craighead,

Trader, M. W. See Griswold, Trader, Frei, Peters, Wolpert, and Laster, 2323; Plowman, Harrison, Trader, Griswold, Chadwick, McComish, Silveira, and Zaharko, 685

Traganos, F., Bueti, C., Darzynkiewicz, Z., and Melamed, M. R. Effects of a New Amsacrine Derivative, N-5-Dimethyl-9-(2-methoxy-4-methylsulfonylamino)phenylamino-4-acridinecarboxamide, on Cultured Mammalian Cells,

Trainor, K. See Seshadri, Kutlaca, Trainor, Mat-

thews, and Morley, 407
Travers, M. T. See Barrett-Lee, Travers, Mc-Clelland, Luqmani, and Coombes, 6653

Travis, J. See Chawla, Lawson, Sarma, Nixon, and Travis 1179

Treat, M. See Guillem, O'Brian, Fitzer, Forde, LoGerfo, Treat, and Weinstein, 2036 Trechsel, U. See Kozak, Rizzoli, Trechsel, and

Fleisch, 6193 Treilhou-Lahille, F. See Bouizar, Rostène, Treilhou-Lahille, Pidoux, Milhaud, and Moukhtar,

3595

Trent, J. M. See Beck, Cirtain, Danks, Felsted, Safa, Wolverton, Suttle, and Trent, 5455; Slo-vak, Hoeltge, and Trent, 6646 Treuner, J. See Ehninger, Klingebiel, Kumbier,

Schuler, Feine, Treuner, and Waller, 6147 Trewyn, R. W. See Muralidhar and Trewyn, 2440 Trey, J. E. See Gerson, Trey, Miller, and Benja-

Tribble, H. R. See Talmadge, Phillips, Schindler,

Tribble, and Pennington, 5725; Talmadge, Tribble, Pennington, Phillips, and Wiltrout, 2563 Tribukait, B. See Brosjö, Bauer, Broström, Nilsson, Reinholt, and Tribukait, 258; Skog, Tribu-

kait, Wallström, and Eriksson, 6490 Tricomi, W. A. See Moore, Eldridge, Tricomi, and Gould, 2609

Tricot, G. J., Jayaram, H. N., Nichols, C. R., Pennington, K., Lapis, E., Weber, G., and Hoff-man, R. Hematological and Biochemical Action of Tiazofurin (NSC 286193) in a Case of Refractory Acute Myeloid Leukemia, 4988

Triglia, T. See Werkmeister, Triglia, Mackay, Dowling, Varigos, Morstyn, and Burns, 225 Trinchieri, G. See Andrews, Trinchieri, Perussia,

and Baglioni, 740

Trinchieri, G., Rosen, M., and Perussia, B. Induction of Differentiation of Human Myeloid Cell Lines by Tumor Necrosis Factor in Cooperation with $1\alpha,25$ -Dihydroxyvitamin $D_3,2236$

Trites, D. H. See Rosowsky, Wright, Cucchi, Fla-tow, Trites, Teicher, and Frei, 5913 Tritton, T. R. See Lane, Vichi, Bain, and Tritton,

Troilo, P. See Little, Nove, Dahlberg, Troilo, Ni-

chols, and Strong, 4229

Troll, W. See Garte, Currie, and Troll, 3159 Trono, D. See Baba, Klein-Szanto, Trono, Obara, Yoakum, Masui, and Harris, 573

Trookman, N. S. See Korc, Haussler, and Trookman, 4909

maii, 4909 Trosko, J. E. See Chang, Trosko, El-Fouly, Gib-son-D'Ambrosio, and D'Ambrosio, 1634; Ka-vanagh, Martin, El-Fouly, Trosko, Chang, and Rabinovitch, 6046; Moskal, Lockney, Marvel, Trosko, and Sweeley, 787

Trott, P. A. See McClelland, Berger, Wilson, Powles, Trott, Easton, Gazet, and Coombes,

Trotta, P. P., and Harrison, S. D., Jr. Evaluation of the Antitumor Activity of Recombinant Human γ-Interferon Employing Human Mela-noma Xenografts in Athymic Nude Mice, 5347 Trowbridge, I. S. See Sauvage, Mendelsohn, Les-

ley, and Trowbridge, 747
Trump, D. L., Tutsch, K. D., Willson, J. K. V.,
Remick, S., Simon, K., Alberti, D., Grem, J.,
Koeller, J., and Tormey, D. C. Phase I Clinical Trial and Pharmacokinetic Evaluation of Acodazole (NSC 305884), an Imidazoquinoline Derivative with Electrophysiological Effects on the

Tsai, J-F. See Yeh, Tsai, Chuang, Yeh, Tsai, Florine, and Tam, 896 Tsai, J-H. See Yeh, Tsai, Chuang, Yeh, Tsai,

Florine, and Tam, 896

Tsao, M-S., and Grisham, J. W. Phenotypic Modulation during Tumorigenesis by Clones of Transformed Rat Liver Epithelial Cells, 1282

Tso, C. Y. See Goldstein, Gockerman, Krishnan, Ritchie, Tso, Hood, Ellinwood, and Laszto, 6397

Tsuchida, T., Ravindranath, M. H., Saxton, R. E., and Irie, R. F. Gangliosides of Human Mela-noma: Altered Expression in Vivo and in Vitro,

Tsuchida, Y. See Kanda, Tsuchida, Hata, Kohl, Alt, Latt, and Utakoji, 3291; Kaneko, Kanda, Maseki, Sakurai, Tsuchida, Takeda, Okabe, and Sakurai, 311

Tsuda, T., Kim, Y. T., Siskind, G. W., DeBlasio, A., Schwab, R., Ershler, W., and Weksler, M. E. Role of the Thymus and T-Cells in Slow Growth of B16 Melanoma in Old Mice, 3097

Tsuji, Y., Yoshioka, M., Ogasawara, T., Takemura, T., and Isojima, S. Identification of an H Anti-gen-like Blood Group Antigen in Sera of Cancer Patients Using a Novel Monoclonal Antibody

Raised against Endometrial Carcinoma, 3543
Tsujimoto, H., Noda, Y., Ishikawa, K-i., Nakamura,
H., Fukasawa, M., Sakakibara, I., Sasagawa, A.,
Honjo, S., and Hayami, M. Development of Adult T-Cell Leukemia-like Disease in African Green Monkey Associated with Clonal Integra-tion of Simian T-Cell Leukemia Virus Type I,

Tsujisaki, M. See Kusama, Kageshita, Tsujisaki,

Perosa, and Ferrone, 4312

Tsukada, Y., Ohkawa, K., and Hibi, N. Therapeutic Effect of Treatment with Polyclonal or Monoclonal Antibodies to α-Fetoprotein That Have Been Conjugated to Daunomycin via a Dextran Bridge: Studies with an α-Fetoprotein-producing Rat Hepatoma Tumor Model, 4293

Tsumuraya, M. See Terasaki, Shimosato, Nakajima, Tsumuraya, Ichinose, Nagatsu, and Kato,

3533

Tsuruo, T. See Hamada, Hagiwara, Nakajima, and Tsuruo, 2860; Sugimoto, Oh-hara, Watanabe, Saito, Yamori, and Tsuruo, 4396; Sugimoto and Tsuruo, 2620; Yamashita, Hamada, Tsuruo, and Ogata, 3736

Tsutsumi, A. See Tsutsumi, Tsutsumi, and Oka,

Tsutsumi, O., Tsutsumi, A., and Oka, T. Importance of Epidermal Growth Factor in Implantation and Growth of Mouse Mammary Tumor

in Female Nude Mice, 4651
Tucker, S. L. See Singletary, Baker, Spitzer,
Tucker, Tomasovic, Brock, Ajani, and Kelly,

Turjman, N. See Hamilton, Hyland, McAvinchey, Chaudhry, Hartka, Kim, Cichon, Floyd, Turjman, Kessie, Nair, and Dick, 1551

Tursz, T. See Lipinski, Braham, Philip, Wiels, Philip, Goridis, Lenoir, and Tursz, 183

Tuscan, M. J. See Wollner, Knutsen, Ullrich, Chrisp, Juni, Andrews, Tuscan, Stetson, and Ensminger, 3285

Tuscano, J. M. See Patierno, Tuscano, Kim, Lan-

dolph, and Lee, 6220
Tuszynski, G. P., Gasic, T. B., Rothman, V. L.,
Knudsen, K. A., and Gasic, G. J. Thrombospon-

din, a Potentiator of Tumor Cell Metastasis, 4130

Tutsch, K. D. See Trump, Tutsch, Willson, Remick, Simon, Alberti, Grem, Koeller, and Tormey, 3895

Tutton, P. J. M. See Eisman, Barkla, and Tutton, 21

Tvedt, K. E., Kopstad, G., Haugen, O. A., and Halgunset, J. Subcellular Concentrations of Calcium, Zinc, and Magnesium in Benign Nodular Hyperplasia of the Human Prostate: X-Ray Microanalysis of Freeze-Dried Cryosections, 323

Tveit, E., Weiss, L., Lundstam, S., and Hultborn, R. Perfusion Characteristics and Norepinephrine Reactivity of Human Renal Carcinoma,

Twiggs, L. B. See Ostrow, Manias, Clark, Okagaki,

Twiggs, and Faras, 649
Tyrrell, R. M., and Amaudruz, F. Evidence for Two Independent Pathways of Biologically Effective Excision Repair from Its Rate and Extent in Cells Cultured from Sun-sensitive Humans, 3775

Tyrrell, R. M., and Pidoux, M. Action Spectra for Human Skin Cells: Estimates of the Relative Cytotoxicity of the Middle Ultraviolet, Near Ultraviolet, and Violet Regions of Sunlight on Epidermal Keratinocytes, 1825

U

U, H. S., Kelley, P., Ashbaugh, S., Tatsukawa, K., and Werner, R. Tumorigenicity in the Nude Mouse of Cocultures Derived from Two Nontumorigenic Cell Types, Human Pituitary Adenomas and Mouse C3H 10T1/2 Fibroblasts, 5678

Uchida, E. See Tempero, Uchida, Takasaki, Bur-

nett, Steplewski, and Pour, 5501

Uchida, N. See Hiraoka, Nakamura, Nishizawa, Uchida, Noguchi, Matsumoto, and Sato, 6560; Noguchi, Nishizawa, Nakamura, Uchida, Yamaguchi, Sato, Kitamura, and Matsumoto, 263; Omukai, Nakamura, Hiraoka, Nishizawa, Uchida, Noguchi, Sato, and Matsumoto, 4329

Uchino, H. See Oguma, Yoshida, Uchino, and Maekawa, 2196, 3599

Uckun, F. M. See Weil-Hillman, Uckun, Manske, and Vallera, 579

Ueda, I. See Yamashita, Totani, Kuroki, Mat-suoka, Ueda, and Kobata, 3451

Ueda, R. See Nishimura, Yokoyama, Araki, Ueda, Kudo, and Watanabe, 999

Uehara, N. See Kunimoto, Nitta, Tanaka, Uehara, Baba, Takeuchi, Yokokura, Sawada, Miyasaka, and Mutai, 5944

Uemura, K-i. See Hattori, Uemura, Ogata, Katsuyama, Taketomi, and Kanfer, 1968

Ueo, H. See Matsuoka, Sugimachi, Ueo, Kuwano, Nakano, and Nakayama, 4134 Ugelstad, J. See Kvalheim, Fodstad, Pihl, Nustad,

Pharo, Ugelstad, and Funderud, 846 Ullrich, A. See Derynck, Goeddel, Ullrich, Gutter-man, Williams, Bringman, and Berger, 707

Ullrich, K. A. See Wollner, Knutsen, Ullrich, Chrisp, Juni, Andrews, Tuscan, Stetson, and

Ensminger, 3285 Ullrich, R. L. See Adams, Ethier, and Ullrich, 4425 Umemoto, N. See Endo, Kato, Takeda, Saito, Umemoto, Kishida, and Hara, 1076

Umezawa, H., Nishikawa, K., Shibasaki, C., Tak-ahashi, K., Nakamura, T., and Takeuchi, T. In-volvement of Cytotoxic T-Lymphocytes in the Antitumor Activity of Spergualin against L1210 Cells, 3062

Uozumi, J. See Imaizumi, Uozumi, and Breitman,

Urano, Y. See Okuda, Fujimoto, Hanai, and Urano, 4967

Urtasun, R. C. See Coleman, Halsey, Cox. Hirst, Blaschke, Howes, Wasserman, Urtasun, Pajak, Hancock, Phillips, and Noll, 319

Ushio, Y. See Yamada, Ushio, Hayakawa, Arita Huang, Nagatani, Yamada, and Mogami, 2123 Usman, M. I. See Rao, Mangino, Usman, Subbarao, Scarpelli, Reddy, and Reddy, 1657

Utakoji, T. See Kanda, Tsuchida, Hata, Kohl, Alt,

Latt, and Utakoji, 3291

Utermohlen, V. See Szeluga, Stuart, Brookmeyer, Utermohlen, and Santos, 3309

Utesch, D., Glatt, H., and Oesch, F. Rat Hepatocyte-mediated Bacterial Mutagenicity in Relation to the Carcinogenic Potency of Benz(a)-anthracene, Benzo(a)pyrene, and Twenty-five Methylated Derivatives, 1509

Vaage, J. Local and Systemic Effects during Interleukin-2 Therapy of Mouse Mammary Tumors,

Vaage, J., and Harlos, J. P. Spontaneous Metas-tasis from Primary C3H Mouse Mammary Tumors, 547

Vacca, A. See Sutherland, Buchegger, Schreyer, Vacca, and Mach, 1627

Valerie, K., Green, A. P., de Riel, J. K., and Hen-derson, E. E. Transient and Stable Complementation of Ultraviolet Repair in Xeroderma Pigmentosum Cells by the denV Gene of Bacteriophage T4, 2967

Valette, A., Gas, N., Jozan, S., Roubinet, F., Du-pont, M. A., and Bayard, F. Influence of 12-O-Tetradecanoylphorbol-13-acetate on Proliferation and Maturation of Human Breast Carcinoma Cells (MCF-7): Relationship to Cell Cycle **Events**, 1615

Vallera, D. A. See Weil-Hillman, Uckun, Manske, and Vallera, 579

van Bekkum, D. W. See Klein, Zurcher, and van Bekkum, 3251

van Bergen en Henegouwen, P. M. P. See Wiegant, van Bergen en Henegouwen, van Dongen, and Linnemans, 1674

van den Akker, E. See van Maanen, de Vries, Pappie, van den Akker, Lafleur, Retèl, van der Greef, and Pinedo, 4658

Van de Pavert, I. V. See Roos and Van de Pavert, 5439

van de Poll, M. See Collard, van de Poll, Scheffer, Roos, Hopman, Geurts van Kessel, and van Dongen, 6666

Van der Bliek, A. M. See Jongsma, Spengler, Van

der Bliek, Borst, and Biedler, 2875 van der Greef, J. See van Maanen, de Vries, Pappie, van den Akker, Lafleur, Retèl, van der Greef, and Pinedo, 4658

van der Linden, P. W. G. See van Dierendonck, Cornelisse, van der Linden, van Putten, and van de Velde, 4093

van der Vijgh, W. J. F. See van Hennik, van der Vijgh, Klein, Elferink, Vermorken, Winograd, and Pinedo, 6297

van Deurs, B. See Petersen, Høyer, and van Deurs, 5748; Petersen and van Deurs, 856

van de Velde, C. J. H. See van Dierendonck, Cornelisse, van der Linden, van Putten, and van de Velde, 4093

van Dierendonck, J. H., Cornelisse, C. J., van der Linden, P. W. G., van Putten, L. M., and van de Velde, C. J. H. Characterization of a Slowgrowing, Transplantable Rat Mammary Tumor (MCR-83): A Model for Endocrine-related Cell Kinetic Studies, 4093

van Dongen, G. See Wiegant, van Bergen en Henegouwen, van Dongen, and Linnemans, 1674 van Dongen, J. J. M. See Collard, van de Poll, Scheffer, Roos, Hopman, Geurts van Kessel, and van Dongen, 6666

Van Dyke, D. L. See Babu, Lutz, Miles, Farah,

Weiss, and Van Dyke, 6800 Van Echo, D. A. See Egorin, Conley, Forrest, Zuhowski, Sinibaldi, and Van Echo, 6104; Egorin, Sigman, Van Echo, Forrest, Whitacre, and

Asiner, 617; Egorin, Zuhowski, Cohen, Geelhaar, Callery, and Van Echo, 6142 van Gennip, A. H. See de Korte, Haverkort, de

Boer, van Gennip, and Roos, 1841

van Helden, P. D. See Bedford and van Helden, 5274

van Hennik, M. B., van der Vijgh, W. J. F., Klein, I., Elferink, F., Vermorken, J. B., Winograd, B., and Pinedo, H. M. Comparative Pharmacokinetics of Cisplatin and Three Analogues in Mice and Humans, 6297 van Koetsveld, P. See Lamberts, van Koetsveld,

and Verleun, 3667

van Maanen, J. M. S., de Vries, J., Pappie, D., van den Akker, E., Lafleur, M. V. M., Retèl, J., van der Greef, J., and Pinedo, H. M. Cytochrome P-450-mediated O-Demethylation: A Route in the Metabolic Activation of Etoposide (VP-16-213), 4658

van Oosterom, A. T. See Fichtinger-Schepman, van Oosterom, Lohman, and Berends, 3000: Stoter. Sylvester, Sleijfer, ten Bokkel Huinink, Kaye, Jones, van Oosterom, Vendrik, Spaander, and de Pauw, 2714

van Oostwaard, T. M. J. See van Zoelen, van Rooijen, van Oostwaard, and de Laat, 1582

van Putten, L. M. See van Dierendonck, Cornelisse, van der Linden, van Putten, and van de Velde, 4093

van Rijssel, R. H. See Sijens, Bovée, Seijkens, Koole, Los, and van Rijssel, 6467

van Rooijen, M. A. See van Zoelen, van Rooijen, van Oostwaard, and de Laat, 1582

Van Thiel, D. H. See Francavilla, Ove, Polimeno, Coetzee, Makowka, Rose, Van Thiel, and Starzl,

van Veelen, C. W. M. See Staal, Kalff, Heesbeen,

van Veelen, and Rijksen, 5047 van Zoelen, E. J. J., van Rooijen, M. A., van Oostwaard, T. M. J., and de Laat, S. W. Production of Transforming Growth Factors by Simian

Sarcoma Virus-transformed Cells, 1582 Varello, M. See Rodeck, Herlyn, Herlyn, Mol-thoff, Atkinson, Varello, Steplewski, and Koprowski, 3692

Varesio, L. See Tonini, Radzioch, Gronberg, Clayton, Blasi, Benetton, and Varesio, 4544

Varigos, G. A. See Werkmeister, Triglia, Mackay, Dowling, Varigos, Morstyn, and Burns, 225

Vass, W. See Wang, Vass, Gao, and Chang, 4192 Vassalli, J-D. See Busso, Belin, Failly-Crépin, and Vassalli, 364; Sappino, Busso, Belin, and Vassalli, 4043

Vassilev, P. M., Kanazirska, M. P., Charamella, L. J., Dimitrov, N. V., and Tien, H. T. Changes in Calcium Channel Activity in Membranes from cis-Diamminedichloroplatinum(II)-resistant and -sensitive L1210 Cells, 519

Vaupel, P., Fortmeyer, H. P., Runkel, S., and Kal-linowski, F. Blood Flow, Oxygen Consumption, and Tissue Oxygenation of Human Breast Cancer Xenografts in Nude Rats, 3496

Vazquez, A. See Klein, Jourdan, Vazquez, Dugas, and Bataille, 4856

Veltman, J. C., and Anders, M. W. Cytotoxicity of N,N-Bis(2-chloroethyl)-N-nitrosourea in Hypoxic Rat Hepatocytes, 5087

Vena, R. L. See Ofner, Leav, Boucher, and Vena, 1701

Vendrik, C. P. J. See Stoter, Sylvester, Sleijfer, ten Bokkel Huinink, Kaye, Jones, van Oosterom, Vendrik, Spaander, and de Pauw, 2714 Vennin, P. See Hecquet, Vennin, Fournier, and

Poissonnier, 6134 Venturelli, D. See Torelli, Venturelli, Coló, Zanni, Selleri, Moretti, Calabretta, and Torelli, 5266

Venturi, C. L. See Grunberg, Kempf, Venturi, and Mitchell, 1174

Verheijen, J. H. See de Bruin, Griffioen, Verspaget, Verheijen, and Lamers, 4654

Verleun, T. See Lamberts, van Koetsveld, and Verleun, 3667

Verma, A. K. Inhibition of Both Stage I and Stage II Mouse Skin Tumor Promotion by Retinoic Acid and the Dependence of Inhibition of Tumor Promotion on the Duration of Retinoic Acid Treatment, 5097. See also Gilmour, Verma, Madara, and O'Brien, 1221

Vermorken, J. B. See van Hennik, van der Vijgh, Klein, Elferink, Vermorken, Winograd, and Pinedo 6297

Verschuere, B. See Auclair, Pierre, Voisin, Pepin, Cros, Colas, Saucier, Verschuere, Gros, and Paoletti, 6254

Verspaget, H. W. See de Bruin, Griffioen, Verspaget, Verheijen, and Lamers, 4654

Verstijnen, C. P. H. J. See Arends, Schutte, Wiggers, Verstijnen, Blijham, and Bosman, 4342 Very, D. L. See Oh, Very, Walker, Raam, and Ju, 5120

Viadana, P. See Corallini, Pagnani, Viadana, Camellin, Caputo, Reschiglian, Rossi, Altavilla, Selvatici, and Barbanti-Brodano, 6671

Viaje, A. See Miller, Viaje, Aldaz, Conti, and Slaga, 1935

Viar, M. J. See Goren, Wright, Pratt, Horowitz, Dodge, Viar, and Kovnar, 1457

Vichi, P. See Lane, Vichi, Bain, and Tritton, 4038 Vickers, L. See Stevens, Hickman, Langdon, Chubb, Vickers, Stone, Baig, Goddard, Gibson, Slack, Newton, Lunt, Fizames, and Lavelle, 5846

Vidal, P. M. See Fanucchi, Kinahan, Samuels, Hancock, Chou, Niedzwiecki, Farag, Vidal, DeGraw, Sternberg, Sirotnak, and Young, 2334; Fanucchi, Walsh, Fleisher, Lokos, Williams, Cassidy, Vidal, Chou, Niedzwiecki, and Young,

Vieira, W. D. See Law, Vieira, Kameyama, and Hearing, 5841

Viglione, M. See Thor, Muraro, Gorstein, Ohuchi, Viglione, Szpak, Johnston, and Schlom, 505 Vignon, F. See Bardon, Vignon, Montcourrier, and

Rochefort, 1441

Vilette, D., Emanoil-Ravier, R., Buffe, D., Rimbaut, C., and Peries, J. c-Ki-ras Gene Amplification and Malignant Behavior in Murine Embryonal Carcinoma Cell Lines, 867

Vintermyr, O. See Øgreid, Cho-Chung, Ekanger, Vintermyr, Haavik, and Døskeland, 2576

Viola, A. R. See Lazzarino, Viola, Mulieri, Rotilio, and Mavelli, 6511 Viora, M. See Giacomini, Viora, Tecce, Knowles,

Natali, and Ferrone, 5175 Vistica, D. T. See Kramer, Greene, Ahmad, and Vistica, 1593

Vitt, C. R. See Creasey, Doyle, Reynolds, Jung, Lin, and Vitt, 145

Vives-Corrons, J. L. See Colomer, Vives-Corrons,

Pujades, and Bartrons, 1859 Vogel, C-W. See Panneerselvam, Bredehorst, and Vogel, 4601

Vogelstein, B., Fearon, E. R., Hamilton, S. R., Preisinger, A. C., Willard, H. F., Michelson, A. M., Riggs, A. D., and Orkin, S. H. Clonal Anal-ysis Using Recombinant DNA Probes from the X-Chromosome, 4806

Vogler, W. R. See Kiss, Deli, Shoji, Koeffler, Pet-tit, Vogler, and Kuo, 1302; Okamoto, Olson, and Vogler, 2599; Shoji, Girard, Charp, Koeffler, Vogler, and Kuo, 6363

Voisin, E. See Auclair, Pierre, Voisin, Pepin, Cros, Colas, Saucier, Verschuere, Gros, and Paoletti, 6254

Vollberg, T. M., Cool, B. L., and Sirover, M. A. Biosynthesis of the Human Base Excision Repair Enzyme Uracil-DNA Glycosylase, 123

Volovics, L. See Schutte, Reynders, Wiggers, Ar-ends, Volovics, Bosman, and Blijham, 5494 Volpe, J. See Milas, Wike, Hunter, Volpe, and Basic, 1069

Vonderhaar, B. K. See Biswas and Vonderhaar, 3509; Rothschild, Boylan, Calhoon, and Vonderhaar, 4508

Von Hoff, D. D. See Arteaga, Forseth, Clark, and Von Hoff, 6248; Sebolt, Scavone, Pinter, Hamelehle, Von Hoff, and Jackson, 4299

von Schultz, L. See Johansson, Anderström, von Schultz, and Larsson, 559

von Werder, K. See Reubi, Maurer, von Werder, Torhorst, Klijn, and Lamberts, 551

Vooijs, G. P. See Broers, Rot, Oostendorp, Huysmans, Wagenaar, Wiersma-van Tilburg, Vooijs, and Ramaekers, 3225

Vournakis, J. See Graziano, Lehr, Merl, Ehrlich, Moore, Hallinan, Hubbell, Davey, Vournakis, and Poiesz, 2468

Vuk-Pavlović, S. See Bajzer and Vuk-Pavlović, 5330

Waalkes, M. P., Rehm, S., Kasprzak, K. S., and Issaq, H. J. Inflammatory, Proliferative, and Neoplastic Lesions at the Site of Metallic Identification Ear Tags in Wistar [Crl:(WI)BR] Rats,

Wachter, H. See Reibnegger, Hetzel, Fuchs, Fuith, Hausen, Werner, and Wachter, 4977 Wada, F. See Matuo, Nishi, Matsui, Sandberg,

Isaacs, and Wada, 188 Wada, O. See Manabe, Yanagisawa, Ishikawa, Ki-tagawa, Kanai, and Wada, 6150

Wade, D. See Keefer, Anjo, Wade, Wang, and Yang, 447; Yoo, Cheung, Patten, Wade, and Yang, 3378

Wade, D., Yang, C. S., Metral, C. J., Roman, J. M., Hrabie, J. A., Riggs, C. W., Anjo, T., Keefer, L. K., and Mico, B. A. Deuterium Isotype Effect on Denitrosation and Demethylation of N-Nitrosodimethylamine by Rat Liver Microsomes, 3373

Wade, G. G., Mandel, R., and Ryser, H. J-P. Marked Synergism of Dimethylnitrosamine Carcinogenesis in Rats Exposed to Cadmium, 6606

Wagenaar, S. S. See Broers, Rot. Oostendorp, Huysmans, Wagenaar, Wiersma-van Tilburg, Vooijs, and Ramaekers, 3225

Wahl, A. See Rofstad, Wahl, and Brustad, 106 Wahren, B. E. See Hirano, Domar, Yamamoto, Brehmer-Andersson, Wahren, and Stigbrand,

Wahrman, M. Z. See Augenlicht, Wahrman, Hal-

sey, Anderson, Taylor, and Lipkin, 6016 Waibel, R., O'Hara, C. J., and Stahel, R. A. Characterization of an Epithelial and a Tumor-associated Human Small Cell Lung Carcinoma Gly-

coprotein Antigen, 3766 Wainberg, M. A. See Poulin, Skalski, and Wainberg, 3637

land, E. K. See Smith, Braylan, Edmundson, Nutkis, and Wakeland, 2062

Wakhisi, J. See Autrup, Seremet, Wakhisi, and Wasunna, 3430

Wakimoto, H. See Terakawa, Hayashida, Shimizu, Ikegami, Wakimoto, Aono, Tanizawa, Matsu-moto, and Nishida, 1918 Walker, J. See Oh, Very, Walker, Raam, and Ju,

Walker, R. P. See Delclos, Walker, Dooley, Fu, and Kadlubar, 6272

Walker, V. E. See Belinsky, Walker, Maronpot, Swenberg, and Anderson, 6057

Wallace, K. See Ward and Wallace, 4714; Ward, Wallace, Shepherd, and Balkwill, 2662

Wallace, P. M. See Thorpe, Wallace, Knowles, Relf, Brown, Watson, Knyba, Wawrzynczak, and Blakey, 5924

Wallace, T. L. See Li, DeKoning, and Wallace, 5894

Wallach, S. See Brodeur, Hayes, Green. Casper. Wasson, Wallach, and Seeger, 4248 Waller, H. D. See Ehninger, Klingebiel, Kumbier,

Schuler, Feine, Treuner, and Waller, 6147 Wallner, K. E., Banda, M., and Li, G. C. Hyperthermic Enhancement of Cell Killing by Mitomycin C in Mitomycin C-resistant Chinese

Hamster Ovary Cells, 1308 Wallner, K. E., and Li, G. C. Effect of Drug Exposure Duration and Sequencing on Hyper-thermic Potentiation of Mitomycin-C and Cis-

platin, 493 Wallström, B. See Skog, Tribukait, Wallström, and Eriksson, 6490

Walsh, T. See Mulshine, Keenan, Carrasquillo,

Walsh, I. See Mulshine, Keenan, Carrasquino, Walsh, Linnoila, Holton, Harwell, Larson, Bunn, and Weinstein, 3572 Walsh, T. D. See Fanucchi, Walsh, Fleisher, Lo-kos, Williams, Cassidy, Vidal, Chou, Nied-zwiecki, and Young, 3303

Walton, H. L., Jr. See Borlinghaus, Fitzpatrick, Heindel, Mattis, Mease, Schray, Shealy, Walton, and Woo, 4071

Walton, L. See Nelson, Haskill, Sloan, Siegfried, Siegal, Walton, and Kaufman, 2814

Walz, D. See Menter, Steinert, Sloane, Gundlach, O'Gara, Marnett, Diglio, Walz, Taylor, and Honn 6751

Wan, P. See Rotin, Wan, Grinstein, and Tannock.

Wang, C-X. See Reddy, Wang, and Maruyama, 1226

Wang, C. Y., Zukowski, K., Lee, M-S., and Imaida, K. Production of Urothelial Tumors in the Heterotopic Bladder of Rats by Instillation of N-Glucuronosyl or N-Acetyl Derivatives of N-Hydroxy-2-aminofluorene, 3406

Wang, H., Shah, V., and Lanks, K. W. Use of Oxidizing Dyes in Combination with 2-Cyano-cinnamic Acid to Enhance Hyperthermic Cytotoxicity in L929 Cells, 3341

Wang, J. Y. J. See Richardson, Morla, and Wang, 4066

Wang, L-c., Vass, W., Gao, C., and Chang, K. S. S. Amplification and Enhanced Expression of the c-Ki-ras2 Protooncogene in Human Embryonal Carcinomas, 4192

Wang, N. See Bear, Clayman, Elbers, Limas, Wang, Stone, Gebhard, Prigge, and Palmer, 3856

Wang, R-Y. See Kendal, Wang, Hsu, and Frost, 3835

Wang, T. See Keefer, Anjo, Wade, Wang, and Yang, 447

Wani, A. A. See D'Ambrosio, Samuel, Dutta-Choudhury, and Wani, 51 Ward, B. G. See Balkwill, Ward, Moodie, and

Fiers, 4755

Ward, B., G., Mather, S. J., Hawkins, L. R., Crowther, M. E., Shepherd, J. H., Granowska, M., Britton, K. E., and Slevin, M. L. Localization of Radioiodine Conjugated to the Monoclonal Antibody HMFG2 in Human Ovarian Carcinoma: Assessment of Intravenous and Intraperitoneal Routes of Administration, 4719

Ward, B. G., and Wallace, K. Localization of the Monoclonal Antibody HMFG2 after Intrave nous and Intraperitoneal Injection into Nude Mice Bearing Subcutaneous and Intraperitoneal Human Ovarian Cancer Xenografts, 4714

Ward, B. G., Wallace, K., Shepherd, J. H., and Balkwill, F. R. Intraperitoneal Xenografts of Human Epithelial Ovarian Cancer in Nude

Ward, J. M. See Anderson, Ward, Park, Jones, Junker, Gelboin, and Rice, 6079

Ward, M. B. See Mehta, Lawson, Ward, Kimura. and Gee. 3115

Ward-Hartley, K. A., and Jain, R. K. Effect of Glucose and Galactose on Microcirculatory Flow in Normal and Neoplastic Tissues in Rabhits. 371 Wardwell, R. H. See Retsky, Wardwell, Swartz-

endruber, and Headley, 4982 Warnke, P. C., Friedman, H. S., Bigner, D. D., and Groothuis, D. R. Simultaneous Measurements

of Blood Flow and Blood-to-Tissue Transport in Xenotransplanted Medulloblastomas, 1687 Warren, B. S., LaCreta, F. P., Kornhauser, D. M., and Williams, W. M. Dose and Flow Dependence of 5-Fluorouracil Elimination by the Iso-

lated Perfused Rat Liver, 5261 Wasserman, A. J. See Gardner, Wasserman, and Laskin, 6686

Wasserman, T. H. See Coleman, Halsey, Cox, Hirst, Blaschke, Howes, Wasserman, Urtasun, Pajak, Hancock, Phillips, and Noll, 319

Wasson, J. See Brodeur, Hayes, Green, Casper, Wasson, Wallach, and Seeger, 4248 Wasunna, A. See Autrup, Seremet, Wakhisi, and

Wasunna, 3430

Watanabe, J-i., Okabe, T., Fujisawa, M., Takaku, F., and Fukayama, M. Isolation of Small Cell Lung Cancer-associated Antigen from Human Brain, 960

Watanabe, J-I., Okabe, T., Fujisawa, M., Takaku, F., Hirohashi, S., and Shimosato, Y. Monoclonal Antibody That Distinguishes Small-Cell Lung Cancer from Non-Small-Cell Lung Cancer, 826 Watanabe, M. See Ido, Sato, Sakurai, Inagaki,

6881

Saitoh, Watanabe, and Hidaka, 3460

Watanabe, M. See Sugimoto, Oh-hara, Watanabe,

Saito, Yamori, and Tsuruo, 4396
Watanabe, S. See Oda, Watanabe, Sumii, Nakamura, Arakaki, and Shimotohno, 2077

atanabe, T. See Nishimura, Yokoyama, Araki, Ueda, Kudo, and Watanabe, 999

Watson, G. J. See Blakey, Watson, Knowles, and Thorpe, 947; Thorpe, Wallace, Knowles, Relf, Brown, Watson, Knyba, Wawrzynczak, and Blakey, 5924

Watson, R. R. See Gensler, Watson, Moriguchi.

and Bowden, 967 Wattenberg, E. V., Fujiki, H., and Rosner, M. R. Heterologous Regulation of the Epidermal Growth Factor Receptor by Palytoxin, a Non-12-O-Tetradecanoylphorbol-13-acetate-type Tumor Promoter, 4618

Wattenberg, L. W., Hochalter, J. B., and Galbraith, A. R. Inhibition of β-Propiolactone-induced Mu-tagenesis and Neoplasia by Sodium Thiosulfate,

Waud, W. R. Differential Uptake of cis-Diamminedichloroplatinum(II) by Sensitive and Resistant Murine L1210 Leukemia Cells, 6549. See also Bowdon, Waud, Wheeler, Hain, Dansby, and Temple, 1621 Wawrzynczak, E. J. See

Thorpe, Wallace, Knowles, Relf, Brown, Watson, Knyba, Wa-

wrzynczak, and Blakey, 5924 Waxman, S. See Kane, Roth, Raptis, Schreiber, and Waxman, 6444

Ways, D. K., Dodd, R. C., and Earp, H. S. Dissimilar Effects of Phorbol Ester and Diacylglycerol Derivative on Protein Kinase Activity in the Monoblastoid U937 Cell, 3344

Weber, G. See Pillwein, Jayaram, and Weber, 3092; Tricot, Jayaram, Nichols, Pennington,

Lapis, Weber, and Hoffman, 4988 Weber, J. See Sircar, Palkonyay, Rodrigues, Al-laire, Horvath, Thirion, and Weber, 1339 Weber, M. M. See Klurfeld, Weber, and Kritchevsky, 2759

Weckbecker, A. See Weckbecker, Weckbecker, Lien, and Cory, 975

Weckbecker, G., and Cory, J. G. 2,6-Diaminopurinedeoxyriboside as a Prodrug of Deoxyguanosine in L1210 Cells, 2218

Weckbecker, G., Weckbecker, A., Lien, E. J., and Cory, J. G. Effects of N-Hydroxy-N'-amir guanidine Derivatives on Ribonucleotide Reductase Activity, Nucleic Acid Synthesis, Clonogenicity, and Cell Cycle of L1210 Cells, 975

Wedel, N. I. See Spitler, del Rio, Khentigan, Wedel, Brophy, Miller, Harkonen, Rosendorf, Lee, Mischak, Kawahata, Stoudemire, Fradkin, Bautista, and Scannon, 1717

Wedell, B. See Nistér, Wedell, Betsholtz, Bywater, Pettersson, Westermark, and Mark, 4953 Wedrychowski, A. See Olinski, Wedrychowski, Schmidt, Briggs, and Hnilica, 201 Wee, K. H. See Salinas, Wee, and Ceriani, 907

Weese, J. L. See Willson, Bittner, Oberley, Meisner, and Weese, 2704

Weidema, W. F. See Davies, Weidema, Sandle, Palmer, Deschner, and DeCosse, 4646 Wei-Dong, G. See Preisler, Kinniburgh, Wei-

Dong, and Khan, 874
Well, M. See Khayat, Lokiec, Bizzari, Weil,
Meeus, Sellami, Rouesse, Banzet, and Jacquil-

Weil-Hillman, G., Uckun, F. M., Manske, J. M., and Vallera, D. A. Combined Immunochemo-therapy of Human Solid Tumors in Nude Mice,

Weiner, J. A. See Malker, McLaughlin, Silverman, Ericsson, Stone, Weiner, Malker, and Blot, 6763; McLaughlin, Malker, Malker, Stone, Ericsson, Blot, Weiner, and Fraumeni, 287

Weinmaster, G. See Auersperg, Pawson, Worth, and Weinmaster, 6341

Weinstein, I. B. See Colburn, Farber, Weinstein, Diamond, and Slaga, 5509; Dragani, Manenti, Della Porta, and Weinstein, 795; Guillem, O'Brian, Fitzer, Forde, LoGerfo, Treat, and Weinstein, 2036; Hsieh, Hsiao, Peraino, Ma-ronpot, and Weinstein, 3421; Ronai, Lambert, Johnson, Okin, and Weinstein, 4565

Abrams, Foon, Reynolds, Schroff, Morgan, Larson, and Weinstein, 3328; Keenan, Weinstein, Carrasquillo, Bunn, Reynolds, Foon, Smarte, Ghosh, Fejka, Larson, and Mulshine, 6093; Mulshine, Keenan, Carrasquillo, Walsh, Linnoila, Holton, Harwell, Larson, Bunn, and Weinstein, 3572; Parker, Keenan, Dower, Steller, Holton, Sieber, and Weinstein, 2073

Weinstein, R. See Stamato, Peters, Patil, Denko,

Weinstein, and Giaccia, 1588

Weisman, A. S., Raguet, S. S., and Kelly, P. A. Characterization of the Epidermal Growth Factor Receptor in Human Meningioma, 2172

Weiss, L. See Babu, Lutz, Miles, Farah, Weiss, and Van Dyke, 6800

Weiss, L. See Tveit, Weiss, Lundstam, and Hultborn, 4709

Weiss, N. S. See McTiernan, Weiss, and Daling, 292

Weiss, R. J. See Zimm, Cleary, Lucas, Weiss, Markman, Andrews, Schiefer, Kim, Horton, and Howell, 1712

Weksler, M. E. See Tsuda, Kim, Siskind, De-Blasio, Schwab, Ershler, and Weksler, 3097 Welander, E. C. See Saito, Berens, and Welander,

Welch, D. R. See Nakajima, Welch, Belloni, and Nicolson, 4869

Wells, S. A., Jr. See Haagensen, Metzgar, Sawlivich, Swenson, Davis, Newman, Zamcheck, Wells, and Hansen, 5606

Weltman, J. K., Pedroso, P., Johnson, S-A., Davignon, D., Fast, L. D., and Leone, L. A. Rapid Screening with Indirect Immunotoxin for Monoclonal Antibodies against Human Small Cell Lung Cancer, 5552

Wenk, M. L. See Kaufmann, Rice, Wenk, Devor, and Kaufman, 1263

Wepsic, H. T. See Young, Newby, and Wepsic, 100; Young, Young, and Wepsic, 3679

Werkmeister, J. A., Triglia, T., Mackay, I. R., Dowling, J. P., Varigos, G. A., Morstyn, G., and Burns, G. F. Fluctuations in the Expression of a Glycolipid Antigen Associated with Differentiation of Melanoma Cells Monitored by a Monoclonal Antibody, Leo Mel 3, page 225

Werner, E. R. See Reibnegger, Hetzel, Fuchs, Fuith, Hausen, Werner, and Wachter, 4977

Werner, L. See Leroyer, Werner, Shaughnessy, Goddard, and Orr, 4771

Werner, R. See U, Kelley, Ashbaugh, Tatsukawa, and Werner, 5678 Wersto, R. P. See Czerniak, Herz, Wersto, and

Koss, 2826 Wesley, M. N. See Swain, Sorace, Bagley, Dan-

forth, Bader, Wesley, Steinberg, and Lippman, 3889

Wesolowski, G. See Rodan, Imai, Thiede, Wesolowski, Thompson, Bar-Shavit, Shull, Mann, and Rodan, 4961

Westermark, B. See Nistér, Wedell, Betsholtz, Bywater, Pettersson, Westermark, and Mark, 4953; Peres, Betsholtz, Westermark, and Hel-

Westin, E. H. See Ely, Leftwich, Chenevix-Trench, Hall, and Westin, 4595

Wetzel, M. See Meador, Sweet, Stupecky, Wetzel, Murray, Gupta, and Slater, 6216

Wewer, U. M., Taraboletti, G., Sobel, M. E., Albrechtsen, R., and Liotta, L. A. Role of Laminin Receptor in Tumor Cell Migration, 5691

Weyand, E. H. See Rice, Weyand, Geddie, De-Floria, and LaVoie, 6166

Whang-Peng, J. See Behrens, Hamilton, Masuda, Grotzinger, Whang-Peng, Louie, Knutsen, McKoy, Young, and Ozols, 414; Fairchild, Ivy, Kao-Shan, Whang-Peng, Rosen, Israel, Melera, Cowan, and Goldsmith, 5141; Kao-Shan, Fine, Whang-Peng, Lee, and Chabner, 6278

Wheeler, G. P. See Bowdon, Waud, Wheeler, Hain, Dansby, and Temple, 1621

Whitacre, M. Y. See Egorin, Sigman, Van Echo, Forrest, Whitacre, and Aisner, 617

White, C. F. See Ranken, White, Gottfried, Yon-kovich, Blazek, Moss, Fee, and Liu, 5684

White, C. M. See Belinsky, White, Devereux, Swenberg, and Anderson, 1143

White, H. See Coombes, Powles, Easton, Chilvers,

Ford, Smith, McKinna, White, Bradbeer, Yarnold, Nash, Bettelheim, Dowsett, Gazet, and Investigators of the Collaborative Breast Cancer Project, 2494

White, J. C., and Hines, L. H. Role of Uridine Triphosphate in the Phosphorylation of 1-β-D-Arabinofuranosylcytosine by Ehrlich Ascites

Tumor Cells, 1820

White, K. L., Jr. See Kawabata and White, 2317 Whitehead, R. H., Jones, J. K., Gabriel, A., and Lukies, R. E. A New Colon Carcinoma Cell Line (LIM1863) That Grows as Organoids with Spontaneous Differentiation into Crypt-like Structures in Vitro, 2683 Whiteside, T. L. See Heo, Whiteside, Johnson,

Chen, Barnes, and Herberman, 6353

Whitfield, L. R. See Lin, Cashmore, Baker, Dreyer, Ernstoff, Marsh, Bertino, Whitfield, Delap, and Grillo-Lonez, 609

Whitmore, W. F., Jr. See Russo, Liguori, Heston, Huryk, Yang, Fair, Whitmore, and Herr, 5967; Stephenson, James, Gay, Fair, Whitmore, and Melamed, 2504

Whittle, H. See Hall, Inskip, Loik, Tomatis, Day, O'Conor, Bosch, Muir, Parkin, Muñoz, Greenwood, Whittle, Ryder, Oldfield, N'jie, Smith,

and Coursaget, 5782

Wiebe, J. P., Myers, K. I., and Auersperg, N. Modification of Steroidogenesis in Rat Adrenocortical Cells Transformed by Kirsten Murine Sarcoma Virus, 1325

Wieczorek, A. J., Sitaramam, V., Machleidt, W Rhyner, K., Perruchoud, A. P., and Block, L. H. Diagnostic and Prognostic Value of RNA-Proteolipid in Sera of Patients with Malignant Disorders following Therapy: First Clinical Evaluation of a Novel Tumor Marker, 6407

Wiegant, F. A. C., van Bergen en Henegouwen, P. M. P., van Dongen, G., and Linnemans, W. A. M. Stress-induced Thermotolerance of the Cytoskeleton of Mouse Neuroblastoma N2A Cells and Rat Reuber H35 Hepatoma Cells, 1674

Wiels, J. See Lipinski, Braham, Philip, Wiels, Philip, Goridis, Lenoir, and Tursz, 183 Wieman, J. M. See Zucker, Wieman, Lysik,

Wilkie, Ramamurthy, Golub, and Lane, 1608 Wiernik, P. H. See Marcus, Dutcher, Paietta, Ciobanu, Strauman, Wiernik, Hutner, Frank, and Baker, 4208; Paietta, Hubbard, Wiernik, Diehl, and Stockert, 2461

Wiernik, P. H., Schwartz, E. L., Strauman, J. J., Dutcher, J. P., Lipton, R. B., and Paietta, E. Phase I Clinical and Pharmacokinetic Study of

Taxol, 2486

Wiersma-van Tilburg, A. J. M. See Broers, Rot, Oostendorp, Huysmans, Wagenaar, Wiersma-van Tilburg, Vooijs, and Ramaekers, 3225 Wiggers, T. See Arends, Schutte, Wiggers, Ver-stijnen, Blijham, and Bosman, 4342; Schutte,

Reynders, Wiggers, Arends, Volovics, Bosman, and Blijham, 5494

Wike, J. See Milas, Wike, Hunter, Volpe, and Basic, 1069

Wikstrand, C. J. See Lee, Bullard, Wikstrand, Zalutsky, Muhlbaier, and Bigner, 1941

Wile, A. G. See Gordon, Kar, Opfell, and Wile, 5070 Wiley, J. S. See Jamieson, Finch, Snook, and

Wiley, 3130 Wilkie, D. See Zucker, Wieman, Lysik, Wilkie,

Ramamurthy, Golub, and Lane, 1608 Wilkinson, G. R. See Kaisary, Smith, Jaczq. McAllister, Wilkinson, Ray, and Branch, 5488 Wilkinson, M. J. S. See Howell, Harland, Barnes,

Baildam, Wilkinson, Hayward, Swindell, and Sellwood, 300

Willard, H. F. See Vogelstein, Fearon, Hamilton, Preisinger, Willard, Michelson, Riggs, and Orkin, 4806

Willey, J. C., Grafstrom, R. C., Moser, C. E., Jr., Ozanne, C., Sundqvist, K., and Harris, C. C. Biochemical and Morphological Effects of Cigarette Smoke Condensate and Its Fractions on Normal Human Bronchial Epithelial Cells in Vitro, 2045

Williams, G. M. See Sohn, Fiala, Puz, Hamilton, and Williams, 3123 Williams, G. M., and Sato, S. U. S.-Japan Cooperative Cancer Research Program Conference: Causative and Modifying Factors in Digestive Tract Cancer, 922, Meeting Report

Williams, J. R. See Dillehay, Denstman, and Williams, 206

Williams, L. See Fanucchi, Walsh, Fleisher, Lokos, Williams, Cassidy, Vidal, Chou, Niedzwiecki, and Young, 3303

Williams, R. D. See Derynck, Goeddel, Ullrich, Gutterman, Williams, Bringman, and Berger,

Williams, R. E. See Rao, Williams, and Fox, 5888 Williams, W. M. See Warren, LaCreta, Kornhauser, and Williams, 5261
Willingham, M. C. See FitzGerald, Bjorn, Ferris,

Winkelhake, Frankel, Hamilton, Ozols, Willingham, and Pastan, 1407

Willoughby, M. See Avramis, Biener, Krailo, Finklestein, Ettinger, Willoughby, Siegel, and Holcenberg, 6786

Willson, J. K. V. See Schiller, Bittner, Storer, and Willson, 2809; Trump, Tutsch, Willson, Remick, Simon, Alberti, Grem, Koeller, and Tormey, 3895

Willson, J. K. V., Bittner, G. N., Oberley, T. D., Meisner, L. F., and Weese, J. L. Cell Culture of Human Colon Adenomas and Carcinomas,

Wilmanns, W. See Issels, Bourier, Böning, Li, Mak, and Wilmanns, 2268

Wilmer, J. L. See Kligerman, Erexson, Wilmer,

and Schold, 631 Wilson, J. M. See Fram, Robichaud, Bishov, and

Wilson, 3360; Hnatowich, Gionet, Rusckowski, Siebecker, Roche, Shealy, Mattis, Wilson, Hunter, Griffin, and Doherty, 6111

Wilson, N. M. See Keith, Olson, Wilson, and Jefcoate, 1878

Wilson, P. See Berger, Wilson, McClelland, Colston, Haussler, Pike, and Coombes, 6793; McClelland, Berger, Wilson, Powles, Trott, Easton, Gazet, and Coombes, 6118

Wiltrout, R. H. See Talmadge, Tribble, Pennington, Phillips, and Wiltrout, 2563

Winearls, C. G. See Courtenay-Luck, Epenetos, Winearls, and Ritter, 4520

Winick, N. See Tan, Hancock, Steinherz, Bacha, Steinherz, Luks, Winick, Meyers, Mondora, Dantis, Niedzwiecki, and Stevens, 2990

Winkelhake, J. L. See FitzGerald, Bjorn, Ferris, Winkelhake, Frankel, Hamilton, Ozols, Willingham, and Pastan, 1407

Winkelhake, J. L., Stampfl, S., and Zimmerman, R. J. Synergistic Effects of Combination Therapy with Human Recombinant Interleukin-2 and Tumor Necrosis Factor in Murine Tumor Models, 3948 Winograd, B. See van Hennik, van der Vijgh,

Klein, Elferink, Vermorken, Winograd, and Pinedo, 6297

Winter, J. N. See Epstein, Marder, Winter, Stathopoulos, Chen, Parker, and Taylor, 830 Wirth, P. J., Rao, M. S., and Evarts, R. P. Coor-

dinate Polypeptide Expression during Hepatocarcinogenesis in Male F-344 Rats: Comparison of the Solt-Farber and Reddy Models, 2839

Wirth, P. J., Yuspa, S. H., Thorgeirsson, S. S., and Hennings, H. Induction of Common Patterns of Polypeptide Synthesis and Phosphorylation by Calcium and 12-O-Tetradecanoylphorbol-13 acetate in Mouse Epidermal Cell Culture, 2831

Wiseman, R. W., Miller, E. C., Miller, J. A., and Liem, A. Structure-Activity Studies of the Hepatocarcinogenicities of Alkenylbenzene Derivatives Related to Estragole and Safrole on Administration to Preweanling Male C57BL/6J × C3H/HeJ F₁ Mice, 2275

Wisniewski, D., Strife, A., Atzpodien, J., and Clarkson, B. D. Effects of Recombinant Human Tumor Necrosis Factor on Highly Enriched Hematopoietic Progenitor Cell Populations from Normal Human Bone Marrow and Peripheral Blood and Bone Marrow from Patients with Chronic Myeloid Leukemia, 4788

Wolf, C. R. See Buchmann, Schwarz, Schmitt, Wolf, Oesch, and Kunz, 2911; Mandel, Manson, Judah, Simpson, Green, Forrester, Wolf, and Neal, 5218; Robson, Lewis, Wolf, Hayes, Hall, Proctor, Harris, and Hickson, 6022 Wolf, G. See Gmeiner and Wolf, 2311

Wolfe, H. See Ho, Kato, Durda, Murray, Wolfe, Rabin, and Carney, 241

Wolfshohl, J. See Coffey, Goustin, Soderquist, Shipley, Wolfshohl, Carpenter, and Moses, 4590

Wollenberg, G. K., Semple, E., Quinn, B. A., and Hayes, M. A. Inhibition of Proliferation of Normal, Preneoplastic, and Neoplastic Rat Hepatocytes by Transforming Growth Factor-β, 6595

Wollner, I. S., Knutsen, C. A., Ullrich, K. A., Chrisp, C. E., Juni, J. E., Andrews, J. C., Tuscan, M. J., Stetson, P. L., and Ensminger, W. D. Effects of Hepatic Arterial Yttrium-90 Microsphere Administration Alone and Combined with Regional Bromodeoxyuridine Infusion in Dogs, 3285

Wolpert, M. K. See Griswold, Trader, Frei, Peters, Wolpert, and Laster, 2323

Wolverton, J. S. See Beck, Cirtain, Danks, Felsted, Safa, Wolverton, Suttle, and Trent, 5455

Woo, D. V. See Borlinghaus, Fitzpatrick, Heindel, Mattis, Mease, Schray, Shealy, Walton, and Woo, 4071

Wood, J. G. See Girard, Stevens, Blackshear, Merrill, Wood, and Kuo, 2892

Woodhouse, C. See Stevenson, Keenan, Woodhouse, Ottow, Miller, Steller, Foon, Abrams, Beman, Larson, and Sugarbaker, 6100

Worth, A. See Auersperg, Pawson, Worth, and Weinmaster, 6341

Wrensch, M. R. See Gruenke, Wrensch, Petrakis, Miike, Ernster, and Craig, 5483

Wright, B. J. See Russell, Staffeldt, Wright, Prapuolenis, Carnes, and Peraino, 1130

Wright, C. See Manni, Badger, Wright, Ahmed, and Demers, 3066

Wright, J. A. See Blosmanis, Wright, and Goldenberg, 1273; Greenberg, Egan, Jarolim, Gingras, and Wright, 4801
Wright, J. E. See Rosowsky, Wright, Cucchi,

Flatow, Trites, Teicher, and Frei, 5913 Wright, J. J. See Raffeld, Wright, Lipford, Coss-

man, Longo, Bakhshi, and Korsmeyer, 2537 Wright, R. K. See Goren, Wright, Pratt, Horowitz, Dodge, Viar, and Kovnar, 1457

Wright, T. C., Jr. Characterization of Keratins from Rat Cervical Epithelial Cells in Vivo and

in Vitro, 6678
Wu, R. S., Hurst-Calderone, S., and Kohn, K. W. Measurement of O⁶-Alkylguanine-DNA Alkyltransferase Activity in Human Cells and Tumor Tissues by Restriction Endonuclease Inhibition, 6229

Wu, R. T. See Suzuki, Kim, Tahara, Okazaki, Okabe, Wu, and Tanaka, 713

Wunderlich, D. See Ohuchi, Wunderlich, Fujita, Colcher, Muraro, Nose, and Schlom, 3565

Wyrick, S. D., and Chaney, S. G. Note re: S. K. Mauldin et al. Effects of Bidentate Malonate Ligand on the Utilization and Cytotoxicity of Platinum Compounds in the L1210 Cell Line. Cancer Res., 46: 2876–2882, 1986, page 4992, Letter to the Editor

X

Xiao, Y. See Zhu, Zhang, Hu, Xiao, Chen, Xu, Fremy, and Chu, 1848

Xu, X. See Deng, Lu, Chen, Miao, Lu, Li, Cai, Xu, E, and Liu, 3195

Xu, Y-c. See Zhu, Zhang, Hu, Xiao, Chen, Xu, Fremy, and Chu, 1848

Y

Yagi, H. See Pruess-Schwartz, Baird, Yagi, Jerina, Pigott, and Dipple, 4032

Yagihashi, A. See Sato, Yagihashi, Okubo, Torigoe, Takahashi, Sato, and Kikuchi, 3147

Yalowich, J. C. Effects of Microtubule Inhibitors on Etoposide Accumulation and DNA Damage in Human K562 Cells in Vitro, 1010. See also Danks, Yalowich, and Beck, 1297

Yamada, K. See Yokochi, Kawashima, Nakashima, Nagase, Isobe, Nagura, Yamada, Miyadai, and Kimura, 1006

Yamada, K., Ushio, Y., Hayakawa, T., Arita, N.,

Huang, T-Y., Nagatani, M., Yamada, N., and Mogami, H. Distribution of Radiolabeled 1-(4-Amino-2-methyl-5-primidinyl)methyl-3-(2-chloroethyl)-3-nitrosourea Hydrochloride in Rat Brain Tumor: Intraarterial versus Intravenous Administration, 2123

Yamada, M-a. See Eki, Enomoto, Murakami, Hanaoka, and Yamada, 5162

Yamada, N. See Yamada, Ushio, Hayakawa, Arita, Huang, Nagatani, Yamada, and Mogami, 2123 Yamaga, S. See Asano, Shibuya, Okamura, Yamaga, Otsuka, and Niho, 5647

Yamagiwa, S. See Chiba, Oikawa, Naiki, Takimoto, Miyoshi, Mizuno, Yamashina, Yamagiwa, and Kobayashi, 1815; Itaya, Yamagiwa, Okada, Oikawa, Kuzumaki, Takeichi, Hosokawa, and Kobayashi, 3136

Yamaguchi, K. See Noguchi, Nishizawa, Nakamura, Uchida, Yamaguchi, Sato, Kitamura, and Matsumoto, 263

Yamaguchi, N. See Matsuoka, Nakashima, Endo, Yoshida, Kunimatsu, Sakahara, Koizumi, Nakagawa, Yamaguchi, and Torizuka, 6335

Yamaguchi, N. See Shiroeda, Yamaguchi, and Kawai, 4630

Yamaizumi, Z. See Hayatsu, Kasai, Yokoyama, Miyazawa, Yamaizumi, Sato, Nishimura, Arimoto, Hayatsu, and Ohara, 791

Yamamoto, H. See Hirano, Domar, Yamamoto, Brehmer-Andersson, Wahren, and Stigbrand, 2543

Yamamoto, N., and Ngwenya, B. Z. Activation of Mouse Peritoneal Macrophages by Lysophospholipids and Ether Derivatives of Neutral Lipids and Phospholipids, 2008

Yamamoto, T. See Zhou, Battifora, Yokota, Yamamoto, and Cline, 6123

Yamamura, H. See Tatsuta, Iishi, Yamamura, and Taniguchi, 111

Yamamura, Y. See Izumi, Hirai, Hayashi, Konishi, Okuhara, Kohsaka, Aoki, and Yamamura, 1785 Yamanaka, H., Kubota, M., and Carson, D. A. Synergistic Inhibition of Polyamine Synthesis and Growth by Difluoromethylornithine plus Methylthioadenosine in Methylthioadenosine Phosphorylase-deficient Murine Lymphoma Cells, 1771

Yamasaki, H., Hollstein, M., Mesnil, M., Martel, N., and Aguelon, A-M. Selective Lack of Intercellular Communication between Transformed and Nontransformed Cells as a Common Property of Chemical and Oncogene Transformation of BALB/c 3T3 Cells, 5658

Yamasaki, K., Konno, T., Miyauchi, Y., and Maeda, H. Reduction of Hepatic Metastases in Rabbits by Administration of an Oily Anticancer Agent into the Portal Vein, 852

Yamasaki, M. See Magae, Hosokawa, Matsuda, Hotta, Hayasaki, Nagai, Ando, Yamasaki, and Tamura, 96

Yamashina, K. See Chiba, Oikawa, Naiki, Takimoto, Miyoshi, Mizuno, Yamashina, Yamagiwa, and Kobayashi, 1815

Yamashita, K., Totani, K., Kuroki, M., Matsuoka, Y., Ueda, I., and Kobata, A. Structural Studies of the Carbohydrate Moieties of Carcinoembryonic Antigens, 3451

Yamashita, N., Hamada, H., Tsuruo, T., and Ogata, E. Enhancement of Voltage-gated Na* Channel Current Associated with Multidrug Resistance in Human Leukemia Cells. 3736

Yamashita, R. See Chervenak and Yamashita,

Yamashita, T. See Kimura, Inoue, Yamashita, Midorikawa, Arai, and Sendo, 6204

Yamashita, Y. See Fukushima, Kawaguchi, Nishida, Juni, Yamashita, Takahashi, and Nakano, 1930

Yamashita, Y. See Nara, Yamashita, Murohashi, Tanikawa, Imai, and Aoki, 2376

Yamazaki, M. See Kisugi, Kamiya, and Yamazaki, 5649; Okutomi, Nakajima, Sakakibara, Kawauchi, and Yamazaki, 47

Yamazaki, M. See Ota, Fujikawa-yamamoto, Zong, Yamazaki, Odashima, Kitagawa, Abe, and Arichi, 3863

Yamori, T. See Sugimoto, Oh-hara, Watanabe, Saito, Yamori, and Tsuruo, 4396 Yamori, T., Kimura, H., Stewart, K., Ota, D. M., Cleary, K. R., and Irimura, T. Differential Production of High Molecular Weight Sulfated Glycoproteins in Normal Colonic Mucosa, Primary Colon Carcinoma, and Metastases, 2741

Yanagawa, T. See Sato, Azuma, Hayashi, Yoshida. Yanagawa, and Yura, 4453

Yanagisawa, H. See Manabe, Yanagisawa, Ishikawa, Kitagawa, Kanai, and Wada, 6150

Yander, G. See Augenlicht, Augeron, Yander, and Laboisse, 3763

Yang, C-R. See Heston, Yang, Pliner, Russo, and Covey, 3627; Russo, Liguori, Heston, Huryk, Yang, Fair, Whitmore, and Herr, 5967

Yang, C. S. See Hong, Pan, Dong, Ning, and Yang, 5948; Keefer, Anjo, Wade, Wang, and Yang, 447; Ko, Park, Song, Patten, Tan, Hah, Yang, and Gelboin, 3101; Wade, Yang, Metral, Roman, Hrabie, Riggs, Anjo, Keefer, and Mico, 3373; Yoo, Cheung, Patten, Wade, and Yang, 3378; Yoo, Ning, Patten, and Yang, 992

Yang, H. M. See Mujoo, Cheresh, Yang, and Reisfeld, 1098

Yang, X. Y., DeLeo, V., and Santella, R. M. Immunological Detection and Visualization of 8-Methoxypsoralen-DNA Photoadducts, 2451

Yano, S. See Omar, Yano, and Kikkawa, 3473
Yano, T. See Kuda, Yasumoto, Yano, Nakahashi, Sugimachi, and Nomoto, 2199; Nagashima, Yasumoto, Nakahashi, Takeo, Yano, and Nomoto, 5497; Yasumoto, Miyazaki, Nagashima, Ishida, Kuda, Yano, Sugimachi, and Nomoto, 2184

Yarnold, J. See Coombes, Powles, Easton, Chilvers, Ford, Smith, McKinna, White, Bradbeer, Yarnold, Nash, Bettelheim, Dowsett, Gazet, and Investigators of the Collaborative Breast Cancer Project, 2494

Yashrut, A. A., Berjesteh, K., and Taffet, S. M. Isolation of 12-O-Tetradecanoylphorbol-13-acetate-resistant Mutants of a Macrophage-like Cell Line: Evidence for Induction by 12-O-Tetradecanoylphorbol-13-acetate of a Non-Colony-

stimulating Growth Factor, 2777 Yasuda, T. See Konno, Suzuki, Tadakuma, Kumai, Yasuda, Kubota, Ohta, Nagaike, Hosokawa, Ishibiki, Abe, and Saito, 4471

Yasumoto, K. See Kuda, Yasumoto, Yano, Nakahashi, Sugimachi, and Nomoto, 2199; Nagashima, Yasumoto, Nakahashi, Takeo, Yano, and Nomoto, 5497

Yasumoto, K., Miyazaki, K., Nagashima, A., Ishida, T., Kuda, T., Yano, T., Sugimachi, K., and Nomoto, K. Induction of Lymphokine-activated Killer Cells by Intrapleural Instillations of Recombinant Interleukin-2 in Patients with Malignant Pleurisy Due to Lung Cancer, 2184

Yasutake, C., Kuratomi, Y., Ono, M., Masumi, S., and Kuwano, M. Effect of 5-Azacytidine on Malignant Transformation of a Mutant Derived from the Mouse BALB/c 3T3 Cell Line Resistant to Transformation by Chemical Carcinogens, 4894

Yaswen, P. See Braun, Goyette, Yaswen, Thompson, and Fausto, 4116

Yavelow, J., Caggana, M., and Beck, K. A. Proteases Occurring in the Cell Membrane: A Possible Cell Receptor for the Bowman-Birk Type of Protease Inhibitors, 1598

Yavelow, J., Scott, C. B., and Mayer, T. C. Fluorescent Visualization of Binding and Internalization of the Anticarcinogenic Bowman-Birk Type Protease Inhibitors in Transformed Fibroblasts. 1602

Yefenof, E. See Ben-David, Yefenof, and Kotler, 6590

Yeh, G. C., Occhipinti, S. J., Cowan, K. H., Chabner, B. A., and Myers, C. E. Adriamycin Resistance in Human Tumor Cells Associated with Marked Alterations in the Regulation of the Hexose Monophosphate Shunt and Its Response to Oxidant Stress, 5994

Yeh, H-W. See Yeh, Tsai, Chuang, Yeh, Tsai, Florine, and Tam, 896

Yeh, Y-C., Tsai, J-F., Chuang, L-Y., Yeh, H-W., Tsai, J-H., Florine, D. L., and Tam, J. P. Elevation of Transforming Growth Factor α and its Relationship to the Epidermal Growth Factor and a-Fetoprotein Levels in Patients with Hepatocellular Carcinoma, 896

Yen, A., Forbes, M., DeGala, G., and Fishbaugh, J. Control of HL-60 Cell Differentiation Lineage Specificity, a Late Event Occurring after Precommitment, 129

Yen, Y. P. See Goodman, Yen, Cox, and Crowley,

Yeoh, G. C. T. See Chou and Yeoh, 5415 Yoakum, G. H. See Baba, Klein-Szanto, Trono,

Obara, Yoakum, Masui, and Harris, 573 Yokochi, T. See Nagase, Rahman, Yokochi, Ka-washima, Isobe, Yoshida, Nagura, and Nakashima, 6494

Ima, 0494
Yokochi, T., Kawashima, K., Nakashima, I., Na-gase, F., Isobe, K.-I., Nagura, E.-I., Yamada, K., Miyadai, T., and Kimura, Y. Identification and Characterization of a Unique Tumor-associated Surface Antigen on L1210 Leukemia Cells Recognized by Semisyngeneic Antisera, 1006

Yokokura, T. See Kunimoto, Nitta, Tanaka, Uehara, Baba, Takeuchi, Yokokura, Sawada, Miyasaka, and Mutai, 5944

Yokota, J. See Zhou, Battifora, Yokota, Yamamoto, and Cline, 6123

Yokota, S. See Itoh, Yokota, Takagishi, Hatta, and Okamoto, 5560

Yokoyama, M. See Nishimura, Yokoyama, Araki, Ueda, Kudo, and Watanabe, 999

Yokoyama, M. See Sakai, Hattori, Sagawa, Yokoyama, and Takatsuki, 5572

Yokoyama, S. See Hayatsu, Kasai, Yokoyama, Miyazawa, Yamaizunai, Sato, Nishimura, Arimoto, Havatsu, and Ohara, 791

Yonkovich, S. J. See Ranken, White, Gottfried, Yonkovich, Blazek, Moss, Fee, and Liu, 5684

Yoo, J-S. H., Cheung, R. J., Patten, C. J., Wade, D., and Yang, C. S. Nature of N-Nitrosodimethylamine Demethylase and Its Inhibitors,

Yoo, J-S. H., Ning, S. M., Patten, C. J., and Yang, C. S. Metabolism and Activation of N-Nitroso-dimethylamine by Hamster and Rat Microsomes: Comparative Study with Weanling and Adult Animals, 992

Yoshida, H. See Sato, Azuma, Hayashi, Yoshida, Yanagawa, and Yura, 4453

Yoshida, H. See Shitara, Hanai, and Yoshida, 1267 Yoshida, K. See Sobue, Takeuchi, Yoshida, Akao, Fukatsu, Nagasaka, and Nakashima, 160

Yoshida, M., Gallick, G. E., Irimura, T., and Nicolson, G. L. Modification of Cell Surface Glycoproteins, Macrophage Cytostasis, and Blood-borne Metastatic Properties of the Murine RAW117 Large Cell Lymphoma by Virus Superinfection, 2558

Yoshida, M., Nomura, S., and Beppu, T. Effects of Trichostatins on Differentiation of Murine Erythroleukemia Cells, 3688

Yoshida, S. See Tanaka, Kimura, and Yoshida, 5971

Yoshida, T. See Matsuoka, Nakashima, Endo, Yoshida, Kunimatsu, Sakahara, Koizumi, Nakagawa, Yamaguchi, and Torizuka, 6335

Yoshida, T. See Nagase, Rahman, Yokochi, Kawashima, Isobe, Yoshida, Nagura, and Nakashima, 6494

Yoshida, Y. See Oguma, Yoshida, Uchino, and Maekawa, 2196, 3599

Yoshioka, M. See Tsuji, Yoshioka, Ogasawara, Takemura, and Isojima, 3543

Yoshizawa, C. N. See Kolonel, Hankin, and Yoshizawa, 2982 Yost, G. S. See Horstman, Meadows, and Yost,

Young, B. R. See Painter, Young, and Kapp, 5595 Young, C. W. See Fanucchi, Kinahan, Samuels, Hancock, Chou, Niedzwiecki, Farag, Vidal, DeGraw, Sternberg, Sirotnak, and Young, 2334; Fanucchi, Walsh, Fleisher, Lokos, Williams, Cassidy, Vidal, Chou, Niedzwiecki, and Young, 3303

Young, D. See Rinehart, Young, Laforge, Colborn, and Neidhart, 2481 oung, M. E. See Young, Young, and Wepsic, 3679

Young, M. R., Newby, M., and Wepsic, H. T. Hematopoiesis and Suppressor Bone Marrow

Cells in Mice Bearing Large Metastatic Lewis

Lung Carcinoma Tumors, 100
Young, M. R., Young, M. E., and Wepsic, H. T.
Effect of Prostaglandin E₂-producing Nonmetastatic Lewis Lung Carcinoma Cells on the Migration of Prostaglandin E2-responsive Meta-

static Lewis Lung Carcinoma Cells, 3679
Young, R. C. See Behrens, Hamilton, Masuda, Grotzinger, Whang-Peng, Louie, Knutsen, McKoy, Young, and Ozols, 414

T. See Kerr, Kaye, Cassidy, Bradley, Rankin, Adams, Setanoians, Young, Forrest, Soukop, and Clavel, 6776

YoungLai, E. V. See Jarrell, YoungLai, McMahon, Barr, O'Connell, and Belbeck, 5005

Yu, M. C., Henderson, B. E., Austin, H., Delzell, E., Cole, P., Grufferman, S., Levine, R., Morri-son, A., and Stolley, P. D. Correspondence re: Harland Austin et al. A Case-Control Study of Hepatocellular Carcinoma and the Hepatitis B Virus, Cigarette Smoking, and Alcohol Consumption. Cancer Res., 46: 962-966, 1986, page 654, Letter to the Editor and Reply

Yu, R. K. See Seyfried, Yu, Saito, and Albert, 3538 Yu, V. C. See Sadée, Yu, Richards, Preis, Schwab, Brodsky, and Biedler, 5207

Yuan, C-C. See Ho, Chiang, Li, Yuan, and Ng, 3220

Yuki, N. See Fujii, Yuki, Takeichi, Kobayashi, and Miyazaki, 1668

Yung, B. Y-M. See Chan, Aldrich, and Yung, 3798 Yura, Y. See Sato, Azuma, Hayashi, Yoshida, Yanagawa, and Yura, 4453

Yuspa, S. H. See Reed, Litterst, Thill, Yuspa, and Poirier, 718; Sako, Yuspa, Herald, Pettit, and Blumberg, 5445; Wirth, Yuspa, Thorgeirsson, and Hennings, 2831

Zaharko, D. See Plowman, Harrison, Trader, Griswold, Chadwick, McComish, Silveira, and Zaharko, 685

Zahn, R. K. See Müller, Sladić, Zahn, Bässler, Dogović, Gerner, Gasić, and Schröder, 6565 Zain, S. See Klinge, Bambara, Zain, and Hilf, 2852

Zajac-Kaye, M. See Friend, Zajac-Kaye, Holland, and Pogo, 378

Zalman, M-A., and Meruelo, D. Phosphoproteins Recognized by an H-2-linked Immune Response Gene and Their Association with Cell Proliferation, 193

Zalutsky, M. R. See Lee, Bullard, Wikstrand, Zalutsky, Muhlbaier, and Bigner, 1941

Zamcheck, N. See Haagensen, Metzgar, Sawlivich, Swenson, Davis, Newman, Zamcheck, Wells, and Hansen, 5606

Zamora, J. M. See Kelner, McMorris, Beck, Zamora, and Taetle, 3186

Zanghellini, E. See Gioanni, Samson, Zanghellini, Mazeau, Ettore, Demard, Chauvel, Duplay, Schneider, Laurent, and Lalanne, 4417

Zanni, C. See Torelli, Venturelli, Coló, Zanni, Selleri, Moretti, Calabretta, and Torelli, 5266 Zappacosta, S. See Fontana, Del Vecchio, Racioppi, Carbone, Pinto, Colletta, and Zappacosta, 4178

Zarcone, D. See Landay, Zarcone, Grossi, and Bauer, 2767

Zarcone, D., Tilden, A. B., Friedman, H. M., and Grossi, C. E. Human Leukemia-derived Cell Lines and Clones as Models for Mechanistic Analysis of Natural Killer Cell-mediated Cyto-

Zeiger, E. See Carcinogenicity of Mutagens: Pre-dictive Capability of the Salmonella Mutagenesis Assay for Rodent Carcinogenicity, 1287

Zelikoff, J. T., Garte, S. J., Belman, S., Feuerstein, N., and Cooper, H. L. Correspondence re: Nili Feuerstein et al. Differential Phosphorylation Events Associated with Phorbol Ester Effects on Acceleration versus Inhibition of Cell Growth. Cancer Res., 44: 5227-5233, 1984, page 329, Letter to the Editor and Reply

Zhang, L., Bird, R. P., and Bruce, W. R. Proliferative Activity of Murine Mammary Epithelium as Affected by Dietary Fat and Calcium, 4905 Zhang, L-s. See Zhu, Zhang, Hu, Xiao, Chen, Xu, Fremy, and Chu, 1848

Zhang, Z-c., and Cabot, M. C. Modification of Serum, Pancreatic, and Microbial Lipase Activities by Phorbol Diesters, 135

Zheng, W. See Levin, Gao, Blot, Zheng, and Fraumeni, 5777

Zhou, D., Battifora, H., Yokota, J., Yamamoto, T., and Cline, M. J. Association of Multiple Copies of the c-erbB-2 Oncogene with Spread of Breast Cancer, 6123

Zhou, G. See Black, Freeman, Zhou, and Busch, 3266

Zhu, J-q., Zhang, L-s., Hu, X., Xiao, Y., Chen, J-s., Xu, Y-c., Fremy, J., and Chu, F. S. Correlation of Dietary Aflatoxin B, Levels with Excretion of Aflatoxin M1 in Human Urine, 1848

Ziai, M. R., Imberti, L., Nicotra, M. R., Badaracco, G., Segatto, O., Natali, P. G., and Ferrone, S. Analysis with Monoclonal Antibodies of the Molecular and Cellular Heterogeneity of Human High Molecular Weight Melanoma Associated Antigen, 2474

Zijlstra, J. G. See Meijer, Mulder, Timmer-Bosscha, Zijlstra, and de Vries, 4613

Zijlstra, J. G., de'Vries, E. G. E., and Mulder, N. H. Multifactorial Drug Resistance in an Adriamycin-resistant Human Small Cell Lung Carcinoma Cell Line, 1780

Zimm, S. See Balis, Patel, Luks, Doherty, Holcenberg, Tan, Reaman, Belasco, Ettinger, Zimm, and Poplack, 4973

Zimm, S., Cleary, S. M., Lucas, W. E., Weiss, R. J., Markman, M., Andrews, P. A., Schiefer, M. A., Kim, S., Horton, C., and Howell, S. B. Phase I/Pharmacokinetic Study of Intraperitoneal Cisplatin and Etoposide, 1712

Zimmer, A. M., Kazikiewicz, J. M., Rosen, S. T., and Spies, S. M. Pharmacokinetics of ^{99m}Tc(Sn)-and ¹³¹I-labeled Anti-Carcinoembryonic Antigen Monoclonal Antibody Fragments in Nude Mice, 1691

Zimmerman, R. J. See Winkelhake, Stampfl, and Zimmerman, 3948

Zimmerman, R. J., Gaillard, E. T., and Goldin, A. Metastatic Potential of Four Human Melanoma Xenografts in Young Athymic Mice following Tail Vein Inoculation, 2305

Zivkovic, Z. See Chitambar and Zivkovic, 3929 Zlotogorski, C. See Sariban, Kohn, Zlotogorski, Laurent, D'Incalci, Day, Smith, Kornblith, and Erickson, 3988

Zong, Z-p. See Ota, Fujikawa-yamamoto, Zong, Yamazaki, Odashima, Kitagawa, Abe, and Arichi, 3863

Zucker, S., Wieman, J. M., Lysik, R. M., Wilkie, D., Ramamurthy, N. S., Golub, L. M., and Lane B. Enrichment of Collagen and Gelatin Degrading Activities in the Plasma Membranes of Human Cancer Cells, 1608

Zuhowski, E. G. See Egorin, Conley, Forrest, Zuhowski, Sinibaldi, and Van Echo, 6104; Egorin, Zuhowski, Cohen, Geelhaar, Callery, and Van Echo, 6142

Zukowski, K. See Wang, Zukowski, Lee, and Imaida, 3406

Zunino, F. See Capranico, Riva, Tinelli, Dasdia, and Zunino, 3752

Zurcher, C. See Klein, Zurcher, and van Bekkum, 3251

zur, Hausen, H. See Bürkle, Meyer, Hilz, and zur Hausen, 3632; Klingel, Mincheva, Kahn, Gissmann, Dippold, Meyer zum Büschenfelde, and zur Hausen, 4485

Zweibaum, A. See Chantret, Chevalier, Dussaulx, and Zweibaum, 1426

Zwelling, L. A. See Andersson, Beran, Bakic, Silberman, Newman, and Zwelling, 1040; Bakic, Chan, Freireich, Marton, and Zwelling, 6437

Zwelling, L. A., Estey, E., Silberman, L., Doyle, S., and Hittelman, W. Effect of Cell Proliferation and Chromatin Conformation on Intercalator-induced, Protein-associated DNA Cleavage in Human Brain Tumor Cells and Human Fibro-

Index to Volume 47

Subject Index

Abrin-9.2.27

studies on mechanism of action melanoma cell lines, 6243

Accessory cells

macrophage dysfunction viral DNA synthesis, osteopetrosis,

6033

Acetoacetate in vivo nutrient uptake

head and neck cancer, 5230

2-Acetylaminofluorene

DNA adducts in liver microfluorometric determination,

2098 human and rat hepatocyte metabolism, 5861

N-Acetyl-1,6-diaminohexane

hexamethylene bisacetamide metabolites plasma pharmacokinetics, urinary excretion, 6142

N-Acetyl melphalan

selective enhancement

antitumor activity, conjugation to MoAbs, 62

N-Acetyl neuraminic acid lectin-resistant mutants

glycosphingolipids, 150

Acinar cells

5-azacytidine induction myoepithelial cells, salivary intercalated duct cells, 4453

Aclacinomycin

enhanced activity peritoneal cells, 3477 myeloid leukemia effect

1-β-D-arabinofuranosylcytosine, 2376

Acodazole

phase I trial, 3895

Acquired immune deficiency syndrome antiproliferative effects of suramin lymphoid cells, 4694

3'-azido-3'-deoxythymidine feline leukemia virus-infected cats, 3190

retroviruses

carcinogens, pathogens, 1199 Sapporo Cancer Seminar, 918

4'-(9-Acridinylamino)-3-methanesulfon-manisidide: see Amsacrine

Actinomycin D

effect of bisbenzylisoquinoline alkaloids multidrug resistance, KB human cancer cells, 2413

induced chromosome damage

hyperthermia, Chinese hamster ovary cells, 3584

methotrexate and dibutyryl cyclic adenosine monophosphate modulation, human chorionic gonado-

tropin, 383 nucleolar protein B23 translocation tumor cells, 3798

TNF and its muteins

biological effects, tumor and normal cell lines, 145

Adenine

guanine starvation and

DNA synthesis, nucleotide precursors,

Adenocarcinoma

breast

antibodies, surface membrane marker, 2433

bromodichloromethane

neoplasms in rodents, 5189

colonic

metastatic ability, platelet-aggregating ability, 4396

metastatic potential, fucosylglycoprotein, 881

MoAb differentiation, ovarian adenocarcinoma, 505

xenograft development, thymidine salvage, 2117

degradation

basement membrane type IV collagen, tumor metastasis, 4869

differential behavior

bronchial carcinoma cells, 3251

endometrial

progestin growth inhibition, progesterone receptors, 1918

epidemiology

cell type, cervical cancer, 1706

benign gastric lesions or, carcinoembryonic antigen, 3565 gastrointestinal carcinoma

immune function, fusions of monoclonal antibody 17.1A, 5238

bone and, stimulation of adenylate cyclase, 690

activation of K-ras protooncogene, tetranitromethane, 3212

distribution of antigens, monoclonal antibodies, 1267

mammary

Adriamycin sensitivity markers, NMR spectroscopy, 3396

5-fluoro-2'-deoxycytidine, tumor-selective activation, 2344

ovarian

MoAb differentiation, colon adenocarcinoma, 505

schedule dependence, a-difluoromethylornithine and cis-diamminedichloroplatinum(II), 2247 plasminogen activators

colon, 4654

presence of fucolipid antigens

circulating immune complexes, 5566 production of lipolytic and proteolytic factors

tumor-producing cachexia, host, 5919

estrogen and progestin receptor con-

centrations, 2645 explants, androgen disposition, 1701 immunoregulatory markers, 178

levels of DNA topoisomerase II, 3246 metastatic potential, fucosylglycopro-

tein, 881 spontaneous mammary carcinoma class I MHC expression, immunogenicity, 4915

stomach

expression of c-Ha-ras p21, immunoassays, 1413

Adenocarcinoma cells

human urachal

cell line establishment, chemosensitivity, 4941

polyamine-depleted

DNA interstrand cross-linking, 1,3bis(2-chloroethyl)-1-nitrosourea, 4538

colonic

cell culture, 2704

follicular epithelium of thyroid naturally occurring clones, proliferation potential, 1646

human pituitary

cocultures, C3H/10T1/2 fibroblasts, 5678

Adenosine cyclic 3':5'-monophosphate characterization of effector system

mammary carcinomas, 2576

defects in protein kinase initiated clones, BALB/c 3T3 mouse fibroblasts, 953

effects of prostaglandins melanoma cells, 3141

loss of protein kinase

retinoic acid-induced, teratocarcinoma cells, 5831

protein of murine neuroblastoma cells differential effects, dibutyryl cyclic adenosine monophosphate and retinoic acid, 2417

Adenosine deaminase

DNA strand breaks

2'-deoxycoformycin, chronic lymphocytic leukemia, 2498

Adenosine nucleoside

dialdehyde analogues and

cytotoxic action, neuroblastoma, 3650

Adenosine triphosphatase calcium

> membrane cholesterol, protection from thermal inactivation, 1255

Adenosine triphosphate

influence of D-glucose

respiratory and secretory response, insulin-producing tumor cells, 5905 phosphorylation of 1-β-D-arabinofuranosylcytosine

uridine triphosphate, Ehrlich ascites tumor cells, 1820

S-Adenosylhomocysteine

adenosine analogues activity in neuroblastoma cells, 3656

cytotoxic action neuroblastoma, 3650

S-Adenosylmethionine decarboxylated

excretion in urine, biochemical marker, 890

Adenovirus 2

mitogenic and antimitogenic TGF tumorigenesis, 4086

Adenoviruse

E1A and E1B genes

induction in transformed cells, phorbol ester tumor promoters, 803

transformed cells

isolation of resistant variants, methylglyoxal bis(guanylhydrazone), 1339 Adenylate kinase

photosensitizing effects photofrin II, 4323

Adhesion

tumor cells

role of platelet membrane, extracellular matrix, 6751

Adhesion molecules

tumor cells and capillary endothelium preferential metastasis in vivo, 1492

Adjuvant therany aminoglutethimide

postmenopausal patients, primary breast cancer, 2494

leukemic cell lines

nutritional requirements, 2380

long-term treatment

tamoxifen, sex hormone binding, 4517

topoisomerase-targeted drugs

tumor necrosis factor, synergistic enhancement, 2403

AdoMet decarboxylase

comparison of bis(ethyl)polyamine derivatives

L1210 leukemia cell growth, 2821

ADR-1 cells

cross-sensitivity topoisomerase II inhibitors, 1560

Adrenal gland

antigens on fetal neuroblast cells neuroblastoma cells, 2924

Adrenal medulla

m-[131]iodobenzylguanidine stability and pharmacokinetics, 6147

Adrenal steroids

prostatic carcinoma

aminoglutethimide plus hydrocortisone, 4736

Adrenocortical cells

modification of steroidogenesis Kirsten murine sarcoma virus, 1325

Adrenocorticotropic hormone effects of y-interferon endocrine system, 6397

Adriamycin

cell cycle synchronization microbial iron chelator, L1210 cells,

combined with cyclophosphamide or

mesna

treatment, mice with tumors, 799 comparative cytotoxicity

drug combinations, normal hematopoietic precursors, 119

cytotoxicity

effect of caffeine, Chinese hamster cells, 2224

effect of verapamil, human tumor cells, 2295

effect of bisbenzylisoguinoline alkaloids multidrug resistance, KB human cancer cells, 2413

effect of sodium chloride concentration cell killing, DNA damage in V79 cells, 1853

effect on myeloid leukemia 1-β-D-arabinofuranosylcytosine, 2376 entrapped in liposomes targeting therapy, 4471

hematoporphyrin derivative

light and, pharmacological modulation, 971

induced cytotoxicity

role of hypoxia, Ehrlich ascites cells,

inositol lipid metabolism

inhibition, human erythrocytes, 2799

membrane lipid modification tumors, 4529

multidrug resistance

small cell lung cancer, 2594 resistance

progression, B16-BL6 melanoma cells, 3464

role of free radicals, small cell lung cancer, 4613

resistance in HL-60 cells

surface membrane protein modification, 5080

resistance in human tumor cells hexose monophosphate shunt, oxidant

stress, 5994 resistant breast cancer cells

isolation, amplified and overexpressed DNA sequences, 5141

resistant small cell lung carcinoma cells multifactorial drug resistance, 1780

response-specific sensitivity markers NMR spectroscopy, mammary adenocarcinomas, 3396

uptake and cytotoxicity

temperature dependence studies, 4038 Aflatoxin B.

comparison

dietary M₁, 1913

dietary excretion in urine of M1, 1848

exposure

liver cancer, Kenya, 3430

hepatocarcinogenesis

metabolic basis, protective effect of ethoxyquin, 5218

killing and mutation lymphoblast cells, 1993

Aflatoxin exposure

in Africa

hepatitis B virus, liver cancer, 3430

Aflatoxins

mechanism of protection 5-(2-pyrazinyl)-4-methyl-1,2-dithiol-3thione, 4271

Agglutination

tumor cells

characterization, Rana catesbeiana lectin, 4877

Aging

changes in natural antitumor resistance SHR rats, T-cell depression, 3410 effects of chemical sympathectomy

neuroblastoma tumor growth, catecholamine content, 5620

slow growth of B16 melanoma role, thymus and T-cells, 3097

vitamin A intake

elderly men, prostate cancer, 2982 Agroclavines

mutagenicity experiments, 1811 AIDS: see Acquired immune deficiency syndrome

AKR-MCA cells

transformed cells

difluoromethylornithine, dicyclohexylammonium sulfate, 4099

Albumin

breast tumor cytosol

progesterone-binding cyst protein, 6189

α-fetoproteins and

facile resolution, metal affinity chromatography, 3624

human serum

accelerated decomposition, 4-hydroxycyclophosphamide, 1505

hybridization studies

early stage, neoplastic transformation in liver, 5469

pulmonary microvascular permeability recombinant interleukin-2, 3528

Alcohol consumption cigarette smoking

hepatocellular carcinoma, 654

dietary beer and ethanol

effects, azoxymethane-induced colonic carcinogenesis, 1551

genetic predisposition bladder cancer, 5488

liver cancer

occupational risks, Sweden, 287

Aldehyde dehydrogenase

effect of inhibitors sensitivity, oxazaphosphorines, 3180

Alkaline phosphatase γ-glutamyltransferase expression bone marrow cells, mammary carci-

noma factor, 6262

levels of isozymes human seminoma tissue, 2543

Alkenylbenzene derivatives

structure-activity studies hepatocarcinogenesis, 2275

Alkylating agents

busulfan

autologous bone marrow, solid tumors, 6402

cytostatic drugs

international symposium, 2749

drug-induced cytotoxicity

DNA cross-link formation and removal, melanoma cells, 2631

evaluation of cytotoxicity

DNA damage, flow cytometry analysis, 5537

high-dose chemotherapy

response of L1210 leukemias, 2323

O6-Alkylguanine

DNA synthesis

bone marrow hematopoietic precur-

O6-Alkylguanine-DNA alkyltransferase

formation of DNA cross-links 2-chloroethyl(methyl-

lymphoblasts, 3384

measurement restriction endonuclease inhibition,

sulfonyl)methanesulfonate, leukemic

6229

novel reaction 1,3-bis(2-chloroethyl)-1-nitrosoureatreated DNA, 6185

Alleles

loss of Hu-ets-1

ML cell lines, chromosome change at 11q24, 3842

Allyl alcohol

sublethal hepatic damage

doxorubicin metabolism, toxicity in rabbits, 3259

Alveolar type II cells

pulmonary cytochrome P-450 effects, 3-methylcholanthrene and phenobarbital, 1878

Amino acids

blood

compartmentation, Lewis lung carcinoma, 5644

leukemic cell lines

nutritional requirements, adjuvant

therapy, 2380 link to nitrosourea

phase I study, 6782

neutral carrier system

transport of melphalan, blood-brain barrier, 1571

use of lymph in cell culture

simulation of constraints, tumor growth, 4924

3-Aminobenzamide

DNA repair

C3H 10T1/2 cells, 1118

poly(ADP-ribose) synthesis DNA amplification, 3632

toxicity to Chinese hamster cells 5-hydroxymethyluracil in DNA, 4372

2-Aminobicyclo[2,2,1]heptane-2-carboxylic acid

influence of D-glucose

respiratory and secretory response, insulin-producing tumor cells, 5905

4-Aminobiphenyl N-glucuronidation

hepatic microsomal preparations, 2028

hemoglobin adducts

smokers and nonsmokers, 602

6-Aminochrysene

DNA adduct formation lung and liver, 6272

2-Amino-3,8-dimethylimidazo[4,5-f]quinoxaline

mutagenic metabolites in cooked meat excretion, urine and feces, 791

2-Aminodipyrido[1,2-a:3',2'-d]imidazole accumulation in plasma patients with uremia, 6150

Aminoglutethimide

adjuvant therapy

primary breast cancer, postmenopausal patients, 2494

hydrocortisone and

adrenal steroid levels, prostatic carcinoma, 4736

2-Amino-4-hydroxyquinazoline folate analogues

5.8-dideazaisofolic acid

mechanism of action, colon carcinoma cells, 5975

2-Amino-6-methyldipyrido[1,2-a:3',2'-d]imidazole

accumlation in plasma

patients with uremia, 6150

1-(4-Amino-2-methyl-5-pyrimidinyl)methyl-3-(2-chloroethyl)-3-nitrosourea hydrochloride

distribution in brain tumor

radiolabel, intraarterial versus intravenous administration, 2123

7α-(4'-Amino)phenylthio-4-androstene-3, 17-dione

aromatase inhibitor MCF-7 cells, 4548

Amsacrine

cell line resistance

characterization, myelogenous leukemia. 1897

cell proliferation and chromatin conformation

DNA cleavage, brain tumor cells, 251 inhibition of DNA topoisomerase I intracellular effects, camptothecin, 1793

Anchorage independence

cytochalasin B-induced multinucleation tracheal epithelial cells, 3446

diploid fibroblasts

carcinogenic metal salts, 3815 expression, transfected H-ras oncogene, 5752

Anchorage-independent growth

cellular growth with antibodies immunodetection and modulation, native transforming growth factor-β, 6451

stimulation

interleukin 1, tumor cells, 5612

Androgen

adrenal steroid levels

prostatic carcinoma, aminoglutethimide plus hydrocortisone, 4736

disposition

prostate tumor explants, 1701 induced proteins

breast cancer cells, 2787

Shionogi carcinoma 115

estrogen, growth-stimulating effect, 263

glucocorticoid, growth-stimulating effect, 4329, 6560

spermatogenesis

procarbazine-induced damage, time dependence for protection, 1344

topoisomerase II-mediated DNA breaks cell proliferation, NIH 3T3 fibroblasts and L1210 cells, 2050

Anemia

Fanconi's

cis-diamminedichloroplatinum(II) sensitivity, embryonal carcinoma cells, 6810

Angiogenesis

antitumor chemotherapy

efficacy, cortisone acetate, 5021

influence of gangliosides

neoplastic growth, human and murine cells, 4243

inhibition

interferons, 5155 Angiotensin II

efficacy of two-route chemotherapy limb tumor, 3618

Aniline

nitrosamines and

metabolism, MoAb to cytochrome P-450, 3101

Anthracycline

Adriamycin cytotoxicity

effect of caffeine, Chinese hamster cells, 2224

distribution

effect of verapamil, reversal of drug resistance, 1421

effect on myeloid leukemia

1-β-D-arabinofuranosylcytosine, 2376 high-dose epirubicin

phase I-II trial, lymphoma, 6393

loss of fluorescence

xanthine oxidase, nonfluorescent metabolites, 1036

mitoxantrone/vincristine/prednisone acute lymphocytic leukemia, chronic myelocytic leukemia, 5234

pharmacokinetics of 4'-deoxy-4'-iododoxorubicin

plasma and tissues, compared to doxorubicin, 5401

resistance

DNA strand breaks, 3752

topoisomerase II inhibitors

cross-sensitivity, CHO cells, 1560

Anthraflavic acid

inhibited PAH-DNA adduct formation epidermis, lung, 767

induced epidermal ornithine

decarboxylase inhibition by retinoids, skin tumor formation, 6210

Anthraquinones

inhibition

epidermal monooxygenases, 760

Anthrone derivatives

chrysarobin skin tumor promotion, 3783

Antibiotics

ascofuranone

suppression of hypertriglyceridemia, Ehrlich carcinoma-bearing mice, 96

Antibodies: see also specific antibody

cellular growth

immunodetection and modulation, native transforming growth factor- β ,

OC-125 compared to 19-9 radiolabeled with 111In, 6111

Antibody conjugates

postoperative effect

α-fetoprotein, daunomycin, 4293

Antibody-mediated cellular cytotoxicity interleukin 2 enhancement

human melanoma, 6600 Anticancer drugs

illudins

preclinical evaluation, 3186

isotope evaluation

new screening assay, 6418

new class

interference, regulation of intracellular

pH, 1497

nitrosourea and platinum formation of blocking lesions, identical DNA sequences, 5092

procarbazine

spermatotoxicity, 1547 reduction of hepatic metastases

oily agent, portal vein, 852

Anticoagulant drugs antimetastatic effect

augmentation by immunostimulation, mice, 809

Antiestrogens

antiprogestin and

steroid receptor-mediated cytotoxicity, breast cancer cells, 1441

histamine and growth

calcium channels, 4025

keoxifene and tamoxifen rat mammary carcinoma model, 4020 receptor concentration regulation

prostatic carcinoma, 2645 Antifolates

colon adenocarcinoma xenografts thymidine salvage, 2117 enhanced folate analogue transport methotrexate therapy, leukemia, 5334 10-ethyl-10-deazaaminopterin toxicology, pharmacology, 2334 methotrexate and chemotherapy, 5528 trimetrexate pediatric phase I trial, 4973 Antigens cell surface membrane neuroblastoma cells, monoclonal antibody, 2924 differentiation effect of low dose cyclophosphamide, 3317 Exo-1 secretory epithelial cell marker, gastrointestinal tumors, 2092 lung adenocarcinoma-associated distribution, monoclonal antibodies, 1267 neuroendocrine immunocytological detection, lung cancer heterogeneity, 3225 tumor rejection antigen molecules characterization, colon tumors, 3147 Antineoplastic agents N-acetyl melphalan conjugated to MoAbs antitumor activity, selective enhancement. 62 action determinant topoisomerase II content, 3973

anthracycline antibiotics
loss of fluorescence, 1036
c-myc expression and differentiation
K562 cells, 4544
dacarbazine
prevention of damage, aphidicolin, 26
membrane lipid modification
tumors, 4529
mutagenicity experiments
agroclavines, 1811
tamoxifen
calcium channel antagonist properties,
PC12 neurosecretory cells, 70
Antioxidants

rationale and strategies, cancer in humans, 3012

N,N-dibutylnitrosamine
esophagus and forestomach carcino-

chemoprevention

genesis, 2113 ethoxyquin

protective effect, aflatoxin B₁ hepatocarcinogenesis, 5218 Antiprogestin

antiestrogen and steroid receptor-mediated cytotoxicity, breast cancer cells, 1441 Antiserum

ntiserum chimpanzee evaluation, human carcinoembryonic antigen, 5606

Antithrombin III long-term adjuvant therapy tamoxifen, 4517

Antitumor activity
N-acetyl melphalan
selective enhancement, conjugation to
MoAbs, 62
Adriamycin entrapped in liposomes

conjugation, anti-human α-fetoprotein MoAb, 4471 age-related changes T-cell depression, SHR rats, 3410 aplysianin E purification and characterization, 5649 Bacillus Calmette-Guérin fibronectin-mediated attachment, bladder tumors, 1762 bacterial proteases eradication of solid tumors, 563 8-carbamovl-3-methylimidazo[5,1-d]-1,2, 3,5-tetrazin-4(3H)-one, 5846 direct antiproliferative effects α-interferon B/D hybrids, tumor cell lines, 2020 effects of recombinant IL-2 transplantable fibrosarcoma, pluronic gel, 37 7-ethyl-10-[4-(1-piperidino)-1-piperidino] carbonyloxy-camptothecin murine tumors, 5944 evaluation of recombinant human y-in-

murine tumors, 3944
evaluation of recombinant human γ-interferon
human melanoma xenografts, 5347
immunotoxin

nude mouse model, human ovarian cancer, 1407 immunotoxin synthesis

new coupling agents, hindered disulfide bond, 5924 y-interferon

ascites-associated macrophages, 673 interleukin 2 and tumor necrosis factor combination therapy, 3948 intraperitoneal immunotoxins malignant mesothelioma, 4266

4'-iodo-4'-deoxydoxorubicin chemical, biological characterization, 4001

keoxifene and tamoxifen rat mammary carcinoma model, 4020 lipid composition doxorubicin-containing liposomes, rat solid tumor model, 3366

mechanism of action and 6-thio-3-deazaguanine, 1863 melphalan

fluosol-DA enhancement, various oxygenation conditions, 5036 mechanism, fluosol-DA 20% with carbogen, 513

novel intrapulmonary model orthotopic propagation, lung cancers, 5132 pharmacokinetics of hexamethylmelam-

ine
Intralipid, hepatic regional administration, 5070

phase I study taxol, 2486 tumor necrosis factor, cancer patients,

2986
pleural cavity macrophages and lymphocytes

regulation, lung cancer, 5497 preclinical

pharmacological properties, deoxyspergualin, 685 protein A immunoglobulin G, 2002

solid tumors, 4299 quinocarmycin citrate, 1516

pyrazoloacridines

quinoneimines and quinonediimines cytotoxicity, 2363
ricin A chain anti-Thy 1.1 antibody, chemical deglycosylation, 947
role of alveolar macrophages lung cancer patients, 2199
spergualin
CTL involvement, L1210 cells, 3062
tamoxifen reversal progesterone, 7,12-dimethylbenzanthracene-induced mammary carcinoma, 5386

topoisomerase-targeted drugs tumor necrosis factor, synergistic enhancement, 2403 transient protection

TPA, cultured human cells, 433 tumor necrosis factor- α , 3707 tumor necrosis factor and γ -interferon colonic neoplasms, 2809 verapamil enhancement

cis-diamminedichloroplatinum(II), nude mouse-grown human neuroblastoma, 231

Vinca immunoconjugates monoclonal antibody PF1/D, 3118 Antitumor drugs

contact insensitivity fetal kidney epithelial cells, 1634 delivery

drug-low density lipoprotein complexes, 4105

doxorubicin treatment nucleolar protein B23 translocation, tumor cells, 3798 evaluation of effects

microencapsulated tumor assay, tumor cell lines, 5739

modification of disulfide cytotoxicity glutathione depletion, murine cells, 4391 navelbine

clinical pharmacokinetics, 5796 Aphidicolin

DNA excision repair two pathways, sun-sensitive humans, 3725

prevention of dacarbazine damage human neoplastic cell DNA, 26 role for polymerase α choice of repair sites, xeroderma pig-

mentosum Group C cells, 2393

Aplysianin E

purification and characterization Aplysia kurodai, 5649 Apoprotein E

patterns of ligand binding hepatocarcinogenesis, 3954 1-β-D-Arabinofuranosylcytosine

c-myc expression and differentiation K562 cells, 4544 DNA incorporation

detection of, 6532 effect on myeloid leukemia anthracyclines, 2376 high dose

biochemical pharmacology, childhood acute leukemia, 6786 interactions with cis-diamminedichloro-

platinum(II)
LoVo colon carcinoma cells, 3360
phosphorylation

role of uridine triphosphate, Ehrlich

ascites tumor cells, 1820 potentiation of cytotoxicity K562 cells, cadeguomycin, 713 childhood lymphoblastic leukemia,

role of thymidine biochemical modulation, 3911

slow-release intrathecal therapy multivesicular liposomes, 3935

1-β-D-Arabinofuranosylcytosine 5'-triphosphate

degradation

leukemic myeloblasts and lymphoblasts, 3130

saturation of accumulation leukemia cells, therapy, 3005

9-β-D-Arabinofuranosyl-2-fluoroadenine therapeutic selectivity

murine leukemia, 700 9-β-D-Arabinofuranosyl-2-fluoroadenine 5'-

monophosphate phase II trial

non-Hodgkin's lymphoma, 2719

Arachidonic acid metabolism

lung cancer cell lines, 3757 skin tumor promotion, SENCAR and NMRI mice, 3174

Aromatase inhibitors

> 7α-(4'-amino)phenylthio-4-androstene-3,17-dione, MCF-7 cells, 4548 use of 4-hydroxyandrostenedione postmenopausal breast cancer, 1957

Aromatic amines N-glucuronidation hepatic microsomal preparations, 2028

Asbestos

generation of superoxide alveolar macrophages, 1681 induced mesotheliomas intermediate filament proteins, 5461 multiple myeloma

case-control study of whites, 2978 Ascites

aplysianin E antitumor factor, 5649 effects of tranexamic acid ovarian cancer cells, 592

hepatoma cells macrophage potentiation, invasive capacity, 2167

ovarian carcinoma monoclonal antibodies, epithelial differentiation antigens, 6741

Ascitic fluid sarcoma 180

thiol proteinase inhibitor, 5560

Ascofuranone

suppression of hypertriglyceridemia Ehrlich carcinoma-bearing mice, 96 Ascorbate

depletion

adoptive immunotherapy, 4208 sodium L-ascorbate promotion urinary bladder carcinogenesis, strain and diet differences, 3492

Ascorbic acid

inhibition of 12-O-tetradecanoylphorbol-13-acetate induction ornithine decarboxylase activity, skin, 6633

promotion of urinary bladder carcinogenesis

potassium ion concentration, pH, 4821

Ascorbyl palmitate

inhibition of 12-O-tetradecanoylphorbol-13-acetate induction ornithine decarboxylase activity, skin, 6633

Asialoorosomucoid

patterns of ligand binding hepatocarcinogenesis, 3954

L-Asparaginase modulation

methotrexate polyglutamylation, leukemia L5178Y, 1313

Asparagine

leukemic cell lines nutritional requirements, adjuvant therapy, 2380

linked sugar chains

chorionic gonadotropins, invasive mole and choriocarcinoma, 5242

O6-alkylguanine-DNA alkyltransferase measurement

human cells and tumor tissues, restriction endonuclease inhibition, 6229 anticancer agents

isotopic evaluation, 6418 antigenic heterogeneity

carcinoembryonic antigen, circulation,

benzo(a)pyrene-DNA adduct levels genotoxic effects, mammalian cells, 3388

circulating breast cancer marker CA-549, 5853 colorimetric

tetrazolium-based semiautomatic, chemosensitivity, 936

tetrazolium-based semiautomatic, radiosensitivity, 943

computer-based scanning cloned sequences in biopsies, colonic carcinoma cells, 6017

cytochemical 17β-estradiol and R5020, glucose-6phosphate dehydrogenase in MCF-7 cells, 5119

detection of bone marrow involvement small cell lung cancer, 2737 DNA image cytometry

advanced ovarian cancer, 3938 **DNA** incorporation

1-β-D-arabinofuranosylcytosine, 6532 DNA index and S-phase fraction

prognosis, nodes positive early breast cancer, 4729

enzyme-linked immunoabsorbent dietary aflatoxin B1, M1 excretion, 1848

fibrin clot subrenal capsule rapid growth, human cancer cells, 3824

flow cytometry cytotoxicity and DNA damage, alkylating agents, 5537

DNA in situ denaturation, colon carcinoma, 3942 scrape-loading/dye transfer, intercellu-

lar communication, 6046 S-phase estimation, breast cancer, 5294

hemolytic plaque

prolactin and growth hormone production, pituitary, 1087

hexamethylene bisacetamide metabolites plasma pharmacokinetics, urinary excretion, 6142

high-pressure liquid chromatographic effect of ischemia on nucleosides, liver, 3092

HTLV-I transformation, 2468 human tumor clonogenic cell pharmacokinetics, drug exposure, 3718

immunoassay

melphalan adducts of DNA, monoclonal antibodies, 1542

immunocytochemical estrogen receptors, breast cancer, 2508 immunocytochemically stained fine needle aspirate smears

estrogen receptor status, presurgical determination, 6118

immunocytological detection lung cancer heterogeneity, 3225 immunoradiometric

recognition of cancer antigen CA-125, lung cancer cells, 6335

levels of alkaline phosphatase isozymes human seminoma tissue, 2543

magnetic resonance spectroscopy leukemia in humans, 3901 metal affinity chromatography

facile resolution, α-fetoproteins and serum albumins, 3624 microencapsulated tumor

effects of anticancer drugs, tumor cell lines, 5739

monoclonal antibodies and in situ hybridization

expression of c-Ha-ras p21, human stomach adenocarcinomas, 1413 monoclonal antibody-based immunoas-

cyclic DNA adducts, exposure to crotonaldehyde, 360

monoclonal estrogen receptor enzyme nuclear receptors, breast cancer, 1830 phase I/II trial

interferon-β-serine, renal cell carcinoma, 2481

³¹P nuclear magnetic resonance spectrum characterization, melanoma tumors, 5065 32P-postlabeling

fish from polluted areas, 6543 presence of fucolipid antigens

circulating immune complexes, 5566 progesterone receptor

monoclonal antibodies, breast tumors, 2652

quantitation

invasive potential of tumor cells, 3239 quantitative neutron capture radiography biodistribution, boron-containing compounds, 5451

radiometric method chemotherapy sensitivity, breast cancer cells, 6248

Salmonella mutagenesis predictive capability, carcinogenicity of mutagens, 1287

sandwich-enzyme immunoassay heterogeneity, circulating carcinoembryonic antigen, 4782

screening with indirect immunotoxin monoclonal antibodies, small cell lung cancer, 5552

tetrazolium-based colorimetric chemosensitivity testing, colorectal carcinoma, 5875

tissue distribution epithelial antigen Egp34, 2883

tumor clonogenic effect of y-interferon, ascites-associ-

ated macrophages, 673 tumor rejection

shared tumor-specific antigen, chemically-induced sarcomas, 5074 viscometric and alkaline elution liver DNA fragmentation, N-nitroso

compounds, 3485

lymphokine-activated polymorphonuclear lymphocytes, antitumor effect, 6000

Astrocytomas

distribution of somatostatin receptors,

mycophenolic acid effects detection of glial fragments, 4900

Ataxia telangiectasia detection of heterozygotes cumulative labeling index, 398 impaired glutathione biosynthesis, 4576 workshop on, 4750

Autocrine growth factor transforming growth factor-β platelet-derived growth factor and, mesothelioma, 6180

Autocrine hypothesis transforming growth factor expression colon cancer lines, 4590

Autocrine regulation tumor growth, 5330

Autocrine secretion cellular growth with antibodies immunodetection and modulation, native transforming growth factor- β , 6451

Autoimmune diseases nature of cancer, 927

Autoradiography double-tracer whole-body radioantibody localization, xenografted cancer model, 2177

sarcoma in different anatomical sites, 4706 steroid action of 17β-estradiol, mammary

ducts, 6052 whole-body cryosections

distribution, merbarone, 1135 Avarol

induced DNA strand breakage Friend erythroleukemia cells, 6565 5-Azacytidine

DNA methylation transforming activity, Ha-ras oncogene, 75

effect on DNA methylation deoxycytidine kinase expression, lymphoid cell lines, 3672

effect on malignant transformation chemical carcinogen-resistant cell line,

induction of stable myoepithelial cells acinar cells, salivary intercalated duct cell clone, 4453

Azaserine

effect of bombesin and caerulein early stages of carcinogenesis, pancreas, 3273

pancreatic carcinogenesis plasma cholecystokinin, dietary fat and soybean protein, 1333

Azovvelkene

nitrosodialkylamines and carcinogenesis, 3968

Azoxyethane

nitrosodialkylamines and carcinogenesis, 3968

Azoxymethane

colon carcinogenesis chemoprevention, dietary selenium, 5901

chronic dietary ethanol consumption, 1551, 4305

enhancement, vasoactive intestinal peptide, 4890

restricted caloric intake, 1226 metabolism to methylazoxymethanol ethanol, microsomal metabolism, 3123 nitrosodialkylamines and

carcinogenesis, 3968

Bacillus Calmette-Guérin

activated macrophages tumoricidal effector mechanisms, 2014 therapy for bladder tumors fibronectin-mediated attachment, 1762

tumor cytokinetics

P-815 mastocytoma cells, 2067 Bacteriophage T4

denV gene ultraviolet repair, Xeroderma pigmentosum cells, 2967

BALB/c 3T3 cells

chemical and oncogene transformation lack of intercellular communication, 5658

SV40-transformed differential responsiveness, retinoic acid, 4995

Balkans

endemic nephropathy urinary tract tumors, 3608

BaP: see Benzo(a)pyrene Basal cells

cytokeratin characterization

human prostatic carcinoma, 281 hyperplasia persistence, butylated hydroxyanisole, 5171

Basement membrane

invasive potential of tumor cells quantitation, rapid assay, 3239 liver-metastasizing ability animal model, colon cancer metastasis, 1398

B-cells

control of phosphofructokinase fructose 2,6-bisphosphate, B-chronic lymphocytic leukemia cells, 1859 elimination from bone marrow monodisperse magnetic particles, pri-

mary monoclonal antibodies, 846 Epstein-Barr virus immortalized transformation, chemical carcinogens,

establishment of human tumor athymic mice, 2899

follicular lymphoma cells in vitro transformation, Epstein-Barr virus, 2062

growth factor II production myeloma cells, 4856

Lym-1 and Lym-2 monoclonal anti**bodies** immunotherapeutic potential, 830

tumor-involved lymph node immortalization, lymphocytes, 5181 BCNU: see 1,3-Bis(2-chloroethyl)-1-nitro-

Beef

mutagenic metabolites MeIQx, excretion in urine and feces,

Benzisoquinolinedione

cytotoxicity DNA breaks, leukemia, 1040 Benzo(a)anthracene

carcinogenic potency bacterial mutagenicity, 1509

Benzo(a)pyrene

Ah receptor in human placenta, 4861 BaP-7,8-diol and anti-BPDE contrasting deposition and metabolism, epidermis, 5354

binding alterations

7,12-dimethylbenz(a)anthracene, DNA in epidermis, 3701

binding to tissue DNA

effects of retinoids, metabolizing enzvmes, 5014

bronchial carcinogenesis differential susceptibility, 5202 carcinogenic potency

bacterial mutagenicity, 1509

7,12-dimethylbenz(a)anthracene binding nuclear macromolecules, mammary

epithelial cells, 2609

DNA adduct levels genotoxic effects, mammalian cells, 3388

DNA adducts interspecies differences, mammary

cells, 4402 induction of contact hypersensitivity, 6074

inhibited PAH-DNA adduct formation plant phenols, epidermis and lung, 767 inhibition of epidermal monooxygenases

plant phenols, 760 metabolism and phorbol ester binding fatty acid modification, C3H 10T1/2 cells, 2385

predisposition to transformation fetal lung epithelial cells, 1155 suppression of humoral immune response

α-naphthoflavone, 2317 Benzo(c)phenanthrene

DNA adducts in cell culture, 4032 Benzoic acid

new derivatives retinoid activity, binding, 3523

Benzo[/]fluoranthene tumorigenic metabolites

skin, 6166 Benzylselenocyanate chemoprevention

colonic carcinogenesis, 5901 Betel quid

saliva of chewers

3-(methylnitrosamino)propionitrile, carcinogenicity, 467

BHA: see Butylated hydroxyanisole Bile

clinical pharmacokinetics 5-fluorouracil, 2203 dietary fiber and fecal mutagens metabolic epidemiology, colon cancer, 644

Biological response modifiers application of molecular biology meeting report, 3032 Bisbenzylisoquinoline alkaloids

effect on multidrug resistance KB human cancer cells, 2413

6-[Bis(2-chloroethyl)amino]-6-deoxygalactopyranose hydrochloride new alkylating agent

reduced bone marrow toxicity, 696 1,3-Bis(2-chloroethyl)-1-nitrosourea cell cycle synchronization microbial iron chelator, L1210 cells, 6010

DNA interstrand cross-linking polyamine-depleted adenocarcinoma cells, 4538 strand breakage, polyamine-depleted

cells, 4538 enhancement of anti-cancer activity

enhancement of anti-cancer activity 2'-deoxyuridine/2'-deoxycytidine/thymidine, 394

high-dose chemotherapy response to L1210 leukemias, 2323 human tumor clonogenic cell assay pharmacokinetics, drug exposure, 3718

3718
induced sister chromatid exchange
anaplastic glioma, 631
nitrogen mustard and

brain tumor cell resistance, glutathione, 2525

treated brain tumor cells effect of caffeine, cytotoxicity and sister chromatid exchange, 5052 treated DNA

novel reaction, O'-alkylguanine-DNA alkyltransferase, 6185

N,N-Bis(2-chloroethyl)-N-nitrosourea cytotoxicity

hypoxic rat heptocytes, 5087 N,N'-Bis-(2-ethyl-1,3-dioxylene)-kryptocyanine

mitochondrial photosensitization bladder carcinoma cells, 6580 N¹,N⁸-Bis(ethyl)spermidine

cytotoxicity lung cancer cell line, 3964

Bismuth detoxification

cis-diamminedichloroplatinum(II), 983 cis-Bis-neodecanoato-trans-R,R-1,2-diami-

nocyclohexaneplatinum(II) treatment of liver metastases reticulosarcoma, 6462

reticulosarcoma, 6462
Bisphosphonates
effect of single injection

hypercalcemia and hypercalciuria, Walker carcinosarcoma 256, 6193

carcinoma cells

transferrin as growth factor, 4560 transitional cell carcinoma galactosyltransferase isoenzymes, cellassociated and soluble, 2311 urinary

carcinogen metabolism, experimental model, 3697

Bladder neoplasms

antitumor chemotherapy efficacy, cortisone acetate, 5021 effect of excess L-tryptophan vitamin B₆ deficiency, cancer promo-

tion, 1244 first and second generation Americans,

5771

genetic predisposition debrisoquine, mephenytoin, 5488 induction

N-hydroxy-2-aminofluorene, N-glucuronosyl or N-acetyl derivatives, 3406 intravesical Bacillus Calmette-Guérin

fibronectin-mediated attachment, 1762 new class of anticancer drugs

regulation, intracellular pH, 1497 occupational risks

men in Sweden, 6763 selective killing

A and B chain ricin antibody conjugates, 419

transitional cell carcinoma tumor behavior, chromosomal markers, 6800

tumor photosensitizers purpurin derivatives, 496

Bleomycin induced cytotoxicity role of hypoxia, Ehrlich ascites cells, 2407

sensitive Chinese hamster ovary cells isolation, characterization, 1588

Blood amino acid compartmentation Lewis lung carcinoma, 5644 nitrosocimetidine denitrosation

species differences, 353 nutrient concentration tumor growth, onset of acute fast, 1065

perfluorochemical emulsion exchange brain tumor, cerebral blood flow, 3296 peripheral

peripheral acute leukemia cells, protooncogene expression, 3747

sister chromatid exchange, young cigarette smokers, 6278

volume determination cytostatics dosimetry, isolation perfusion of limbs, 639

Blood-brain barrier disruption

methotrexate, intracerebral osteogenic sarcoma, 6225 dysfunction

recombinant interleukin 2 infusion,

facilitated transport of melphalan large neutral amino acid carrier system, 1571

Blood flow

blood-to-tissue transport simultaneous measurements, xenotransplanted medulloblastomas, 1687

brain tumor, blood-perfluorochemical emulsion exchange, 3296 effect of glucose and galactose

normal and neoplastic tissues, 371 5-fluorouracil elimination liver, 5261

radiobiological effects, murine tumor, 597

oxygen consumption and tissue oxygenation

human breast cancer xenografts, 3496 Blood group antigens

A and H

markers, sucrase-isomaltase, 1426 ABH and Lewis

expression, colorectal carcinoma, 1695 H antigen-like

identification with MoAb, endometrial carcinoma, 3543

human antibody to F9 embryoglycan germ cell tumors, 2288

incompatible

gastric cancer, characterization of glycolipids, 1968

Leª/Y

tumor-associated antigens, epidermal growth factor receptors, 2531

susceptibility of leukemic cell lines, natural killer cells, 2674

Bloom's cell lines DNA excision repair two pathways, 3725

B16 melanoma cells: see Melanoma cells, B16

Body weight

total calories and tumor incidence, 1987

Bombesin

caerulein and early stages of carcinogenesis, pancreas, 3273

gastrin-releasing peptide and selective stimulation, small cell lung cancer, 821

Bone

morphogenesis chondrosarcoma, phenotypic modulation, 3589

osteoblastic properties characterization, osteosarcoma cell line, 4961

stimulation of adenylate cyclase adenocarcinoma, 690

Bone marrow acute leukemia cells

protooncogene expression, 3747 autologous

busulfan treatment, solid tumors, 6402 B-cell elimination primary monoclonal antibodies, mon-

primary monoclonal antibodies, mon odisperse magnetic particles, 846 chemoimmunoseparation

clonogenic T lymphoma cells, 4608 childhood acute leukemia

high dose 1-\$-D-arabinofuranosylcytosine, biochemical pharmacology, 6786

cloning of neuroblastoma cells methylcellulose culture, 4146 detection of involvement

small cell lung cancer, 2737 elimination of leukemic cells

ether lipids, 2599

excess of blasts
probability of development, acute nonlymphoblastic leukemia, 2196
hematopoietic precursors

O6-alkylguanine, DNA synthesis, 89 drug combinations, comparative cytotoxicity, 119

hemopoietic progenitor cell growth modulation, β-interferon, 6576

human progenitor cells tumor necrosis factor effect, chronic myeloid leukemia, 4788

4-hydroperoxycyclophosphamide treatment

survival, colony forming cells, 6371 interaction

HL-60 cell line, stromal cell line, 2879 monoclonal antibodies

kinetics in humans, 3328 progenitors

radiation response, thermal radiosensitization, 1538

reduced toxicity new alkylating agent, C6-galactose mustard, 696

sister chromatid exchange

increased fragile sites, young cigarette smokers, 6278

transplant recipients nutritional support, 3309

trophoblast cell line conditioned medium antigenic characterization, acute myeloid leukemia, 6413

whole body hyperthermia use of insulation, extremity temperature nonuniformity, 5880

Bone marrow cells

cytotoxin release induction, animal lectin, 47 mammary carcinoma elaborated factor γ-glutamyltransferase expression, 6262

suppressor tumor-induced hematopoiesis, Lewis lung carcinoma tumors, 100

tumor-derived factors neutrophilia, hypercalcemia-inducing mammary cancer, 4059

Roron

biodistribution

quantitative neutron capture radiography, 5451

Boronophenylalanine neutron capture therapy

melanoma, 6377 Bowman's glands

dose-dependent binding

activation of phenacetin, nasal mucosa, 1449

molecular dosimetry of DNA adduct for-

4-(N-methyl-N-nitrosamino)-1-(3-pyridyl)-1-butanone, neoplasia induction, 6058

Brachytherapy

hepatic arterial Y-90 microspheres regional bromodeoxyuridine infusion, 3285

Rrain

associated urinary transforming growth

high molecular weight form, epidermal growth factor, 1190

BCNU-treated tumor cells

effect of caffeine, cytotoxicity and sister chromatid exchange, 5052

fetal development

expression, N-myc and c-src, 2931

isolation

small cell lung cancer-associated antigen, 960

melphalan transport

blood-brain barrier, neutral amino acid carrier system, 1571

phosphofructokinase phosphorylation subunit composition, human gliomas,

Brain neoplasms cerebral blood flow and

blood-perfluorochemical emulsion exchange, 3296

distribution

1-(4-amino-2-methyl-5-pyrimidinyl)methyl-3-(2-chloroethyl) -3-nitrosourea hydrochloride, 2123

distribution of somatostatin receptors,

DNA cleavage

cell proliferation, chromatin conformation, 251

ganglioside composition, 3538 resistance to BCNU and nitrogen mus-

glutathione, related enzymes, 2525 xenotransplanted medulloblastomas blood flow, blood-to-tissue transport, 1687

Breast cancer cells

androgen-induced proteins, 2787 antiestrogen and antiprogestin cytotoxicity, steroid receptor-mediated, 1441

growth

direct inhibitory effects, somatostatin analogues, 1566

immunotoxin

monoclonal antibody, 730

Breast neoplasms

adjuvant aminoglutethimide therapy postmenopausal patients, 2494 adjuvant chemotherapy

endocrine effects, tamoxifen, 624 Adriamycin-resistant MCF-7 cells isolation, amplified and overexpressed

DNA sequences, 5141 Adriamycin sensitivity markers

NMR spectroscopy, mammary adenocarcinoma, 3396

application of molecular biology meeting report, 3032 appropriate paradigm, 339

biotransformation of clomiphene chemically reactive metabolites, 4015 cancer at the cellular level, 3337 chemotherapy sensitivity, 6248

circulating marker CA-549, 5853

cytosol

progesterone-binding cyst protein,

1,25-dihydroxyvitamin D3 receptor immunocytochemical detection, 6795

prognosis, DNA index and S-phase fraction, 4729

effects of 17β-estradiol and R5020 glucose-6-phosphate dehydrogenase, 5116

effects of progestins growth in culture, 3066 estradiol-induced c-myc expression, 6517 estrogen-independent tumorigenicity

v-ras oncogene transfection, 5733 estrogen receptor

detection, monoclonal antibody technique, 6572

immmunocytochemical demonstration, 2508

17-α-iodovinyl 11-β-methoxyestradiol, v-ras transfection, 2945 mRNA, 6653

status, presurgical determination, 6118

first and second generation Americans,

histidinol plus fluorouracil therapeutic efficiency, 16

4-hydroperoxycyclophosphamide intrathecal administration, 5932

incidence of thyroid cancer relation to suspected risk, women, 292

insulin receptor regulation tumor cells, 6500

locally advanced nonmetastatic neoadjuvant chemotherapy, 3889

mammary carcinoma and normal breast differential reactivity, monoclonal antibodies, 4444

MCF-7 cell proliferation absence of estrogens, 4355

M_r 39,000 glycoprotein secretion estrogen inhibition, 1234 modeling system evaluation

S-phase estimation, flow cytometry, 5294

node negative

prognostic value, steroid hormone receptors, 6126

nuclear receptors

immunological quantitation, 1830 n21

prognostic significance, 5290

P-glycoprotein expression, 2103 pharmacological concentrations of estrogens

proliferation, cell cycle kinetics, 5323 postmenopausal

4-hydroxyandrostenedione, 1957 prediction of responsiveness

hormonal modulation, plasminogen activator, 3558

progesterone receptor immunocytochemistry

monoclonal antibodies, 2652 prolactin-inducible protein steroid receptor status, 4160

prolactin receptors prognostic significance, 4724 prospective computerized simulation,

reactive monoclonal antibodies core protein, milk mucin, 5476

risk assessment marker, estradiol bioavailability, 5224

risk factors breast fluid, cholesterol and cholesterol epoxides, 5483

role of serum prolactin responsiveness, long-term

tissue culture, 3509 spread of multiple copies, c-erbB-2 oncogene,

6123 4'-O-tetrahydropyranyladriamycin

clinical pharmacology, toxicity, 1461 tumor-draining lymph nodes functional immunocompetence,

humans, 1740

xenografts

blood flow, oxygen consumption, 3496

Breast tissue

mammary carcinoma and

differential reactivity, monoclonal

antibodies, 4444 normal non-lactating

distribution, estrogen receptor-positive

cells, 5748

Bromodeoxyuridine

hepatic arterial Y-90 microspheres, 3285

Bromodichloromethane

neoplasms in rodents, 5189

Bropirimine

natural killer cell modulation

combination, various chemotherapeu-

tic drugs, 5894

Bryostatin 1

inhibition of differentiation

hexamethylene bisacetamide, Friend erythroleukemia cells, 6006

partial parallelism and blockade

phorbol ester tumor promoters, pri-

mary epidermal cells, 5445

autologous bone marrow and

treatment support, solid tumors, 6402

extraction of organ-specific neoantigens

cancer cells, plasma membranes, 1058

Buthionine sulfoxamine chemosensitization

L-phenylalanine mustard, 1593

Butylated hydroxyanisole

N,N-dibutylnitrosamine

esophagus and forestomach carcino-

genesis, 2113

regression of simple hyperplasia

papillomas, 5171

Butylated hydroxytoluene

N,N-dibutylnitrosamine

esophagus and forestomach carcino-

genesis, 2113

N-Butyl-N-(4-hydroxybutyl)nitrosamine induced urinary bladder carcinogenesis

inhibition, a-difluoromethylornithine,

6176

uracil-induced calculi

urinary bladder carcinogenesis, 6726

Butvrate

induction of virus enzymes

Raji cells, 4407

prolactin as growth initiator

Nb2 node lymphoma cells, 1751

BW5147 T-lymphoma cells ras transfection

invasion and metastasis, 754

C

Cachexia

tumor-producing

lipolytic and proteolytic factors, 5919

Cadeguomycin

potentiation of cytotoxicity

1-β-D-arabinofuranosylcytosine, K562 cells, 713

Cadmium

exposure

dimethylnitrosamine carcinogenesis,

6606

Cadmium salts

neoplastic lesions metallic ear tag sites, Wistar rats, 2445

Caerulein

bombesin and

early stages of carcinogenesis, pan-

creas, 3273

effect on Adriamycin cytotoxicity

Chinese hamster cells, 2224

effect on cytotoxicity

sister chromatid exchange, 1,3-bis(2-

chloroethyl)-1-nitrosourea-treated brain tumor cells, 5052

Cain Memorial Award Lecture, 5528

Calcitonin

renal binding sites

early spontaneous deficiency, calcitonin-secreting tumors, 3595

Calcium

altered levels of protein kinase C

human colon carcinomas, 2036

cisplatin-sensitive and -resistant L1210 cells, 519

histamine and growth, 4025

dietary fat and

proliferative activity, mammary epithelium, 4905

distribution of protein kinase C

colonic epithelial cells, proliferation, 3434

flux

hyperthermia, Chinese hamster ovary

fibroblasts, 3712

inhibition of epidermal growth factor pancreatic acini, palmitoyl carnitine, 1805

inositol lipid metabolism

inhibition, Adriamycin, 2799

membrane cholesterol

adenosine triphosphatase, protection from thermal inactivation, 1255

origin of colon cancer, 4237

sodium transmembrane signal

DNA strand break rejoining, proliferating lymphocytes, 5397

12-O-tetradecanoylphorbol-13-acetate and

polypeptides, epidermal differentiation, 2831

zinc and magnesium

benign nodular hyperplasia, prostate, 323

Calcium antagonists

tamoxifen

properties, PC12 neurosecretory cells,

Calcium chromate

localization of chromosome damage comparison, nickel compounds, 2142

uracil-induced

urinary bladder carcinogenesis, N-butyl-N-(4-hydroxybutyl)nitrosamine, 6726

Calmodulin

antagonists

antineoplastic effects of cisplatin, ovarian carcinoma, 6459

inositol lipid metabolism inhibition, Adriamycin, 2799

Caloric intake

body weight and tumor incidence, 1987

Camptothecin

intracellular effects

inhibition, DNA topoisomerase I,

novel water-soluble derivative antitumor activity, murine tumors, 5944

Cancer: see also specific neoplasm advanced

4-demethoxydaunorubicin, children,

etoposide, 72-hour continuous infusion, 1952

pharmacokinetics, trimetrexate, 2996 cellular level, 3337

effect of low dose cyclophosphamide

immune system, 3317 experimental

plasma protein synthesis, paraneoplastic conditions, 5825

fetal haptoglobin

analogy with a potent immunosuppressant, 5120

first and second generation Americans, 5771

genetics

predisposition, 5518

strategies for control, 6814

head and neck

epidermal growth factor receptor gene, 3603

in vivo nutrient uptake, 5230

membrane proteinases

enrichment, collagen and gelatin-degrading activities, 1608

phase I study

tumor necrosis factor, 2986

Cancer-associated antigens

CA-125

recognition by monoclonal antibody, lung cancer cells, 6335

CA-549

circulating breast cancer marker, 5853

Cancer cells

extraction

organ-specific neoantigens, 1-butanol, 1058

8-Carbamoyl-3-methylimidazo[5,1-d]-1,2,3, 5-tetrazin-4(3H)-one

antitumor activity, 5846

Carbogen fluosol-DA and

melphalan antitumor activity, mecha-

nism, 513 radiosensitivity of tumors, increase in pO₂, 442

Carbohydrate antigen 19-9

relationship to Lewis antigens pancreatic cancer, 5501

Carbohydrates

moieties

structural studies, carcinoembryonic antigens, 3451

ricin A chain anti-Thy 1.1 antibody, chemical degly-

cosylation, 947 Carboplatin: see cis-Diammine(1,1-cyclobutanedicarboxylato)platinum(II)

gastric lesions, 3565

Carcinoembryonic antigens antigenic heterogeneity

circulation, 56 carbohydrate moieties

structural studies, 3451 differential expression early gastric adenocarcinomas, benign evaluation of chimpanzee antiserum. 5606

heterogeneity

sandwich-enzyme immunoassays, 4782 monoclonal antibodies

penetration and binding, fragments in tumor spheroids, 1627

primary large bowel carcinomas genotypic and phenotypic features,

radioantibody localization xenografted cancer model, whole-body autoradiography, 2177

radioimmunotherapy

GW-39 human colonic tumor xenograft, monoclonal antibody, 5672 99mTc(Sn)- and 131I-labeled antibody

pharmacokinetics, 1691 unusual isozyme of lactate dehydrogenase

serum, 6156

Carcinogenesis

benzo(a)pyrene and 7,12-dimethylbenz(a)anthracene

binding to nuclear macromolecules, mammary epithelial cells, 2609 benzo(a)pyrene metabolism

fatty acid modification, C3H 10T1/2 cells, 2385

bronchial

differential susceptibility, 5202

chemoprevention

rationale and strategies, cancer in humans, 3012

colonic

azoxymethane-induced, dietary beer and ethanol, 1551

chemoprevention, dietary organoselenium and benzylselenocyanate, 5901 chronic dietary ethanol, azoxymethane

metabolism, 4305 dose-related inhibition, piroxicam, 5340

enhancement, vasoactive intestinal peptide, 4890

sodium transport, mouse model, 4646 cyclic AMP-dependent protein kinases defects, fibroblasts, 953

diethylnitrosamine tumorigenicity transmission failure, Syrian hamster generations, 5112

dimethylnitrosamine

cadmium exposure, 6606

discrimination between benign and malignant cells

melanocytic lineage, 841

DNA damage

ferric nitrilotriacetate and hydrogen peroxide, hydroxyl radical production, 6522

early stages of

effects of bombesin and caerulein, pancreas, 3273

esophagus and forestomach

N,N-dibutylnitrosamine, antioxidants,

propranolol, effect of tetragastrin, 111 heterogeneous DNA damage and repair mammalian genome, 6426

hormonal

aromatic hydroxylation, 11β-substituted estrogens, 2583 inhibition of skin tumor promotion

duration of treatment, retinoic acid.

malignant subcutaneous sarcoma BK virus early region, c-H-ras oncogene, 6671

N-[4-(5-nitro-2-furyl)-2-thiazolyl]formamide-induced

enhancement, urinary tract infection,

nitrosodialkylamines and azoxyalkanes, 3968

ochratoxin A

selective immunosuppression, natural killer cell activity, 2259

pancreatic

plasma cholecystokinin, dietary fat and soybean protein, 1333

promoting effects 7-methylguanine, Chinese hamster embryo cells, 2440

renal

estrogen-induced DNA adducts, cytochrome P-450, 2156

human tissues and cells, 1 site of metallic identification ear tags Wistar rats, 2445

skin

combined treatments, selenium/glutathione/vitamin E, 477

inheritance of susceptibility, mouse hybrids, 6294

thyroid hormone induction

K-ras protooncogene expression, 3methylcholanthrene, 3052

transplacental

ethylnitrosourea-induced, fetal DNA, 348

two-stage

terminal differentiation-resistant epidermal cells, 1935 urinary bladder

ascorbate promotion, strain and diet differences, 3492

L-ascorbic acid, potassium ion concen-tration and pH, 4821

N-butyl-N-(4-hydroxybu-

tyl)nitrosamine-induced, inhibition by α-difluoromethylornithine, 6176 uracil-induced calculi, N-butyl-N-(4hydroxybutyl)nitrosamine, 6726

Carcinogenicity

alkylating cytostatic drugs, 2749 bromodichloromethane neoplasms in rodents, 5189

dietary aflatoxin M₁

comparison, aflatoxin B₁, 1913

induction of prostatic carcinomas testosterone propionate, N-nitrosobis(2-oxopropyl)amine, 5699

3-(methylnitrosamino)propionitrile saliva of betel quid chewers, DNA methylation, 467

mutagens

predictive capability, Salmonella mutagenesis assay, 1287

Carcinogens

2-acetylaminofluorene

human and rat hepatocyte metabolism, 5861

aflatoxin B, in diet

excretion in urine, aflatoxin M1, 1848 aflatoxin exposure

hepatitis B virus, liver cancer, 3430

calcium chromate and nickel compounds chromosome damage localization, 2142

cell cycle deregulation

mitosis-associated polypeptide, hepatocytes, 210

chemical

immortalized B-cells, transformation, 527

malignant transformation, effect of 5azacytidine, 4894

dihydrodiol dehydrogenase

tissue distribution, indomethacin and 6-medroxyprogesterone, 680

endemic nephropathy

urinary tract tumors, Balkans, 3608 glutamic acid pyrolysis products accumulation in plasma, uremia, 6150

growth of enzyme-altered islands mitogen-induced liver hyperplasia, 5557

human and guinea pig melanoma-associated antigen cross-reactivity, monoclonal anti-

bodies, 4835 induced pleiotropic drug resistance

hepatocytes, 5577 induction of contact hypersensitivity dimethylbenz(a)anthracene,

benzo(a)pyrene, 6074 inhibited PAH-DNA adduct formation

plant phenols, 767 in vivo transformation

mammary epithelial cells, serum-free in collagen gels, 275

liver metabolism

hepatitis virus infection, 4052

metabolism in bladder

experimental model, urinary bladder, 3697

6-nitrochrysene-DNA adduct formation lung and liver, 6272

N-nitrosodimethylamine

metabolism and activation, microsomes of hamster and rat, 992

origin of colon cancer, 4237 β-propiolactone-induced mutagenesis

inhibition, sodium thiosulfate, 4351 retroviruses, 1199 tobacco

cell selective DNA alkylation, lung, 1143 tumorigenicity ras oncogene, liver epithelial cells,

4116 Carcinoma

complementation

monoclonal antibody, 4218

suppression of hypertriglyceridemia,

ascofuranone, 96

head and neck collateral methotrexate resistance, cis-

diamminedichloroplatinum(II), 5913 lung epithelial cell growth factors use in culture, primary solid lung tumors, 2903

macrophage content

tumor growth parameters, radiocurability, 1069

19-9 monoclonal antibody

radiosensitizer conjugation, 4071 placental form of uterine cervix lesions immunohistochemical detection.

glutathione S-transferase, 6806 Shionogi 115 estrogen, growth-stimulating effect, 263

skin tumor promotion chrysarobin, 3783 tissue distribution

epithelial antigen Egp34, 2883

Carcinoma, bladder
β-interferon receptor binding
growth-related variation, 4582
mitochondrial photosensitization

kryptocyanine dye, 6580 normal and neoplastic urothelium epidermal growth factor, serum-free medium, 2107

responses to conditioned medium normal urogenital sinus, 2955

Carcinoma, bowel
DNA content and proliferative activity
prognostic significance, 5494

Carcinoma, breast BL6 melanoma

increased metastasis, desmoplasia, 1663

cultured epithelial cells preservation, phenotypic traits, 856 endocrine therapy

effect of tamoxifen, progesterone receptor, 300

progesterone receptor heterogeneity, response prediction, 296

epidermal growth factor receptor gene expression

transforming growth factor-β, 4260 milk fat globule components
MoAb immunotherapy, 532

plasminogen activator gene expression, urokinase-type, 4043 prediction of responsiveness, hormonal modulation, 3558

prognosis
DNA index and S-phase fraction,

tumor-associated antigens monitor of tumor burden, monoclonal antibodies. 907

Carcinoma, bronchial differential behavior, 3251

Carcinoma, bronchogenic 5,6-dihydro-5-azacytidine

fetal hemoglobin gene activation, 4199
Carcinoma cells

transferrin as growth factor, 4560 contact insensitivity fetal epithelial cells, 1634

bladder

embryonal
c-Ki-ras gene amplification, malignant

behavior, 867 high affinity receptors, transforming

growth factor-β, 4386 inherent sensitivity, cis-diamminedichloroplatinum(II) DNA adducts, 6810

metastatic patterns, 6315 migration, nerve growth factor stimulation, 6324

response to interferon, induction of class I MHC antigens, 740 retinoic acid, organ colonization pat-

tern, 3791 mammary

plasminogen activators, glucocorticoid

modulation, 364

potentiation

halogenated pyrimidine radiosensitizers, 5361

Carcinoma, cervical

detection of papillomavirus DNA, 649 molecular alterations c-myc oncogene, 4173

Carcinoma, colonic

A and H blood group antigens markers, sucrase-isomaltase, 1426 altered protein kinase C levels, 2036

anti-carcinoembryonic antigen

99mTc(Sn)- and 131I-labeled, pharmaco-

kinetics, 1691 cell culture, 2704

cellular pharmacology
3'-(3-cyano-4-morpholinyl)-3'-deami-

noadriamycin, 4076, 5935
DNA in situ denaturation
flow cytometry, 3942
epidermal growth factor receptors

epidermal growth factor receptors tumor-associated antigens, 2531

expression of cloned sequences biopsies, 6017 glutathione-S-transferase

class π messenger RNA, 5626 growth as organoids

spontaneous differentiation, crypt-like structures, 2683 inhibitory effects

transforming growth factor-β, 2950 LoVo cells

interactions, cis-diamminedichloroplatinum(II) and 1-β-D-arabinofuranosylcytosine, 3360

mechanism of action 5,8-dideazaisofolic acid, 5975 metastases

sulfated glycoproteins, 2741 primary large bowel

genotypic and phenotypic features, 4342

quinocarmycin citrate antitumor activity, 1516 tumor necrosis factor-α antitumor activity, indirect mode,

3707
Carcinoma, colorectal
ABH and Lewis antigens, 1695
acetylation phenotype, 1466
characteristics of cell lines, 6710

chemosensitivity testing tetrazolium-based colorimetric assay,

chronic dietary beer and ethanol consumption

effects, azoxymethane-induced colonic carcinogenesis, 1551 epidermal growth factor receptor

monoclonal antibody, tumor growth modulation, 3692 Carcinoma, Ehrlich ascites

daunorubicin efficacy cyclosporin A enhancement, hepatoma 129, 6216

Carcinoma, embryonal c-Ki-ras2 protooncogene amplification, 4192

Carcinoma, endometrial
H antigen-like blood group antigen
endometrial carcinoma, 3543

Carcinoma, esophageal squamous cell line sex hormone response, 4134

Carcinoma, gallbladder associated antigen monoclonal antibody, 4667

Carcinoma, gastrointestinal immune function multiple infusions, monoclonal antibody 17.1A, 5238

Carcinoma, hepatocellular

analysis of c-myc expression human hepatoma cell line, 3414 bromodichloromethane neoplasms in rodents, 5189 carringen induced plaintropic drug

carcinogen-induced pleiotropic drug resistance

hepatocytes, 5577

chicken cell line establishment, 4460 chromatin

histone levels, methylated DNA, 5407 dietary aflatoxin B₁ excretion in urine, aflatoxin M₁, 1848

hepatitis B virus cigarette smoking, alcohol consumption, 654

hepatitis intervention study Gambia, 5782

incidence in Japan, 4967 transforming growth factor-α

relationship to epidermal growth factor, α-fetoprotein, 896

Carcinoma, intestinal dietary aflatoxin M₁ comparison, aflatoxin B₁, 1913

Carcinoma, lung epithelial cell growth factors use in culture, 2903

Lewis: see Lewis lung carcinoma tumor plasminogen activator gene expression urokinase-type, 4043 xenogenization

gene transfer, 3136

Carcinoma, mammary antibodies

surface membrane marker, 2433 antitumor actions

keoxifene and tamoxifen, 4020 chromosome aberration characterization restrictive temperature incubation,

heat-labile DNA polymerase, 5162 creatine kinase

effects, estradiol and tamoxifen, 1348 differences in thermotolerance in vivo and in vitro, 2571

7,12-dimethylbenzanthracene-induced tamoxifen reversal, progesterone, 5386 effects of aromatase inhibitor, 4548

expression of growth factors mesenchymal cells, 3425

γ-glutamyltransferase expression, bone marrow cells, 6262 immunogenicity

class I MHC expression, 4915 importance of extended growth potential growth factor independence, neoplastic

potential, 5316 inhibition A-ring substituted estrogens, 4623

interleukin 2 therapy local and systemic effects, 4296 normal breast and differential reactivity, monoclonal

antibodies, 4444 protein kinase isozymes, 2576 Carcinoma, medullary thyroid calcitonin renal binding sites early spontaneous deficiency, 3595

Carcinoma, ovarian degradation of extracellular matrix role of glycosidases, 4634

cis-diamminedichloroplatinum(II) and etoposide

intraperitoneal administration, pharmacokinetic study, 1712

enhancement of antineoplastic effects cisplatin, calmodulin antagonists, 6459

glucocorticoid sensitivity, 6040 localization of radioiodine conjugate monoclonal antibody, 4719 monoclonal antibodies

ascites cells, epithelial differentiation antigens, 6741

therapeutic potential tumor necrosis factor-α, γ-interferon,

Carcinoma, pancreatic anti-carcinoembryonic antigen 99mTc(Sn)- and 131I-labeled, pharmaco-

kinetics, 1691 cancer antigens

monoclonal antibodies, 1367 carbohydrate antigen 19-9

relationship to Lewis antigens, 5501 47D10 glycoprotein

distribution and characterization, 241 cis-diamminedichloroplatinum(II) and etoposide

intraperitoneal administration, pharmacokinetic study, 1712

Carcinoma, prostatic adrenal steroid levels aminoglutethimide, hydrocortisone,

cytokeratin characterization, 281 cytotoxic activity

monoaziridinylputrescine, 3627 estrogen and progestin receptor concen-

trations control of, 2645

induction

testosterone propionate, N-nitrosobis(2-oxopropyl)amine, 5699 intermittent administration

diethylstilbestrol diphosphate, 5967 survival study

DNA flow cytometry, paraffin-embedded biopsy specimens, 1973 Carcinoma, renal cell

hormonal carcinogenesis aromatic hydroxylation, 11β-substituted estrogens, 2583

induced with ferric nitrilotriacetate subacute nephrotoxicity, 1867 β -interferon receptor binding

growth related variation, 4582 perfusion characteristics

norepinephrine reactivity, 4709 phase I/II trial

interferon-β-serine, 2481 stability

long-term serial transplantation, 221 Carcinoma, Shionogi

androgen-induced growth glucocorticoid, inhibitory and stimulatory effects, 6560

androgen-responsive growth-stimulating effect, glucocorticoid, 4329

Carcinoma, small cell lung Adriamycin-resistant

multifactorial drug resistance, 1780

antigens hematopoietic progenitor cells, 6556 cell line from primary tumor 3p deletion, 2148

differential behavior

bronchial carcinoma cells, 3251

epidermal growth factor receptor gene lack of expression, molecular evidence,

epithelial and tumor-associated glycoprotein antigen, 3766

heterogeneity

immunocytochemical detection, 3225 metabolism of arachidonic acid, 3757 production of α subunit

guanine nucleotide-binding protein, 5800

Carcinoma, squamous cell antitumor activity

Vinca immunoconjugates, 3118

cellular resistance cis-diamminedichloroplatinum(II), 388 differential behavior

bronchial carcinoma cells, 3251 epidemiology

cell type, cervical cancer, 1706

four new cell lines uterine cervix, 4947

head and neck

collateral methotrexate resistance, cisdiamminedichloroplatinum(II), 5913 epidermal growth factor receptor gene,

long-term IL 2-dependent growth, tumor-infiltrating lymphocytes, 6353 induction of thymic lymphomas and

neoplastic effects, isopropyl methanesulfonate, 3402

ionizing radiation

initiator, tumor incidence, 6692

activation of K-ras protooncogene, tetranitromethane, 3212

tumor-associated carbohydrate epitopes, 6697 production of interleukin 1α-like factor

hypercalcemia, 6474 surface epitope characterization tumor diagnosis, epithelial cells, 4417

transforming growth factor epidermal growth factor, differentiation, 6705

tumor diagnosis

reactivity, monoclonal antibody 17.13, 5684

Carcinoma, thyroid

influence of glucose and buffer capacity culture medium, spheroids, 3504

Carcinoma, transitional cell antitumor chemotherapy

efficacy, cortisone acetate, 5021

galactosyltransferase isoenzymes, cellassociated and soluble, 2311 invasion and metastasis, new in vivo

model, 6660 tumor behavior, chromosomal markers, 6800

effects of epidermal growth factor normal and malignant

urothelium, 2230

Carcinoma, vulval

epidermal growth factor receptors tumor-associated antigens, 2531 tumor-involved lymph node

immortalization, lymphocytes, 5181

Cardiomyopathy doxorubicin-induced

genesis, role of phospholipase, 1239 Cardiotoxicity

doxorubicin

prevention, fructose-1,6-bisphosphate,

pharmacokinetics of 4'-deoxy-4'-iododoxorubicin

plasma and tissues, compared to doxorubicin, 5401

Carotenes

vitamin A uptake in elderly men prostate cancer, 2982

differentiation-specific proteins preneoplastic mammary tissues, 4686

Castration

cis-diamminedichloroplatinum(II) DNA adduct formation, rat tissues,

diethylstilbestrol diphosphate intermittent administration, prostatic carcinoma, 5967

Catalase

role of fatty acyl coenzyme A oxidase efflux of oxidized glutathione, nafenopin-treated liver, 4795

Catechol

11β-substituted estrogens aromatic hydroxylation, hormonal carcinogenesis, 2583

Catecholamines

neuroblastoma tumor growth effects, chemical sympathectomy, 5620

Cathensin B similar cysteine proteinase plasma membrane-associated, meta-

static melanoma variants, 6620

biochemical and functional characterizamyeloid leukemic cells, polymorphonuclear leukocytes, 5570

Cell culture conditions

generation, LAK cells, 5508

lung epithelial cell growth factors carcinoma-derived, 2903

parameters of growth

differential effects, steroid hormones, 2937

responses to conditioned medium bladder carcinoma cells, normal fetal urogenital sinus, 2955 uterine sarcomas and cell lines

flow cytometric analysis, 2814

Cell cycle absence of DNA overreplication

inhibitors of DNA synthesis, Chinese hamster cells, 5595 cell proliferation

partial characterization, nucleolar antigen M,105,000, 6329

circadian gating of S phase ovarian cancer, 6267 continuous exposure

6-thioguanine, L1210 cells, 3083

deregulation

polypeptide and hepatocyte proliferation, 210

DNA index and S-phase fraction prognosis, nodes positive early breast cancer, 4729

effect of caffeine

cytotoxicity and sister chromatid exchange, BCNU-treated brain tumor cells, 5052

entrance into Go phase

SV40-transformed cells, 6028

epidermal growth factor receptor monoclonal antibody, tumor growth modulation, 3692

evaluation of growth fractions monoclonal antibodies, human α-DNA polymerase, 1892

G2 chromatid radiosensitivity neoplastic transformation, keratinocytes, 1390

glucocorticoid effect

melphalan cytotoxicity, melanoma cell lines, 4814

high-dose estrogen therapy breast cancer, 5323

hydroxyurea-induced cell death T-lymphoma cells, 6490

induced chromosome damage hyperthermia and metabolic inhibitors, Chinese hamster ovary cells, 3584

influence of 12-O-tetradecanoylphorbol-13-acetate

maturation, MCF-7 cells, 1615 initiation of hepatocarcinogenesis **BPDE**, 3771

methyl(acetoxymethyl)nitrosamine, 1263

interferon on radiation cytotoxicity, 4338

nuclear proteins monoclonal antibodies, 3266 progression

Ha-ras p21 expression, colon cancer cells, 2826

proliferation

normal and cancer cells, 1488 schedule dependence

α-difluoromethylornithine and cisdiamminedichloroplatinum(II), pancreatic cancer, 2247

Simian virus 40-transformed fibroblasts mevalonic acid products, cell proliferation, 4825

sister chromatid exchange induction DNA topoisomerase II inhibitors, V79 cells, 206

S-phase estimation

modeling system evaluation, breast cancer, 5294

susceptibility and

target cell relationship, natural killer lysis, 2767 synchronization

microbial iron chelator, L1210 cells, 6010

topoisomerase II cell proliferation, NIH 3T3 fibroblasts and L1210 cells, 2050

Cell death

hydroxyurea-induced relationship to cell cycle, T-lymphoma cells, 6490

Cell killing

Adriamycin cytotoxicity

effect of caffeine, Chinese hamster cells, 2224

effect of sodium chloride concentration Adriamycin, DNA damage in V79 cells, 1853

Cell lineage

characterization

small cell lung cancer, transitional cells, 1883

colon adenomas and carcinomas cell culture, 2704

colon carcinoma cell line

growth as organoids, crypt-like structures, 2683

JOSK-1

constitutive production, interleukin 1, 2589

leukemic cell lines

nutritional requirements, adjuvant therapy, 2380

lung tumor growth

severe combined immunodeficiency, 2456

Cell membrane

protease inhibitors

Bowman-Birk type, possible cell receptor, 1598

Cell proliferation

chromatin conformation and DNA cleavage, brain tumor cells and fibroblasts, 251

circadian gating of S phase ovarian cancer, 6267 differential behavior

bronchial carcinoma cells, 3251 H-2-associated immune response gene

phosphoproteins, 193 mitogen-induced liver hyperplasia carcinogens, growth of enzyme-altered islands, 5557

normal and cancer cells, 1488 nucleolar antigen M, 40,000

identification, partial characterization, 1123

293 cells

phorbol ester tumor promoters induction, adenovirus E1A and E1B genes, 803

Cell surface antigens

antibodies

mammary carcinoma, 2433 blood-borne metastatic properties large cell lymphoma, virus superinfection, 2558

epithelial cell

gastrointestinal tumors, human sera, 3873

malignancy

metastatic large cell lymphoma cells, 3551

melanoma inhibition

gp160, retinoic acid action, 3152 plant glycoside modulation differentiation, B16 melanoma cells,

Cell wall

Nocardia rubra skeleton

tumor necrosis factor-like activity, 1785

Central nervous system

distribution, somatostatin receptors,

Cepharanthine

effect of bisbenzylisoquinoline alkaloids multidrug resistance, KB human cancer cells, 2413

Cerebral neoplasms

blood-brain barrier disruption methotrexate, intracerebral osteogenic sarcoma, 6225

Cervical neoplasia

biochemical epidemiology cigarette smoke constituents, 3886 epidemiology by cell type, 1706

epithelial cells

characterization of keratins, 6678

uterine

four new cell lines, squamous carcinomas, 4947

C6-galactose mustard: see 6-[Bis(2-chloro-ethyl)amino]-6-deoxygalactopyranose hydrochloride

Chemiluminescence

oxygen radical generation

Walker carcinosarcoma cells, chemotactic stimulation, 4771

Chemopotentiation

N-(2-chloroethyl)-N'-cyclohexyl-N-nitro-

V79 spheroids, nitrofuran, 5303

Chemoprevention colon carcinogenesis

dietary organoselenium, benzylselenocyanate, 5901

β-propiolactone-induced mutagenesis inhibition, sodium thiosulfate, 4351 rationale and strategies

cancer in humans, 3012

Chemoprotection

aflatoxin tumorigenicity 5-(2-pyrazinyl)-4-methyl-1,2-dithiol-3thione, 4271

Chemosensitivity

colorimetric assay

tetrazolium-based semiautomatic, evaluation, 936

human urachal adenocarcinoma cell line establishment, 4941

new cell lines

squamous carcinomas, uterine cervix, 4947 new screening assay isotope evaluation, anticancer agents,

6418

Chemoseparation immunoseparation and clonogenic T lymphoma cells, bone

marrow, 4608 Chemotaxis

chemoluminescence

oxygen radical generation, Walker car-cinosarcoma cells, 4771

Chemotherapy

adjunctive use of ethiofos free radical generation, 5411

endocrine effects, tamoxifen and

breast cancer, 624 alkylating cytostatic drugs

international symposium, 2749 amino acid-linked nitrosourea

phase I study, 6782 antifolates and methotrexate, 5528 antitumor

efficacy, cortisone acetate, 5021

antitumor immune reactivity tumor bearer thymocytes, melphalan, 4848

3'-azido-3'-deoxythymidine feline leukemia virus-infected cats, 3190

blood-brain barrier disruption methotrexate, intracerebral osteogenic sarcoma, 6225

cell cycle synchronization microbial iron chelator, L1210 cells, 6010

cell line from primary tumor small cell lung cancer, 3p deletion, 2148

chemosensitization
1.-phenylalanine mustard, buthionine sulfoximine, 1593

circadian gating of S phase ovarian cancer, 6267 complete remission

small cell lung cancer, 2733 concentrative uridine transport

splenocytes, 2614 contact insensitivity

fetal kidney epithelial cells, carcinoma cell line, 1634

disseminated nonseminomatous testicular cancer multivariate analysis, prognostic fac-

tors, 2714 distribution of 1-(4-amino-2-methyl-5-

pyrimidinyl)methyl-3-(2-chloroethyl)-3-nitrosourea hydrochloride brain tumor, 2123

efficacy of two routes

angiotensin II, limb tumor, 3618 EGF-toxin conjugate-resistant KB cell lines, 2961

evaluation of cytotoxicity flow cytometry analysis, alkylating

agents, 5537 genetics of multidrug resistance, 5982

heat and drug sequencing mitomycin C, cisplatin, 493 high-dose

response of L1210 leukemias, 2323 intraarterial *cis*-diamminedichloroplatinum(II)

venous hemodialysis, 1962 vmphomas, 5810

lymphomas, 5810 natural killer cell modulation bropirimine activity, various drugs, 5894

neoadjuvant

locally advanced nonmetastatic breast cancer, 3889

pH-sensitive immunoliposomes cytotoxicity, diphtheria toxin A fragment, 735

position paper, 3907 prospective computerized simulation breast cancer, 4982

selective cytotoxicity follicular melanocytes, 4-S-cysteami-

nylphenol, 3278 sensitivity

breast cancer cells, 6248 solid and ascitic tumor model human malignant mesothelioma cell line, 3199

tetrazolium-based colorimetric assay chemosensitivity testing, colorectal carcinoma, 5875 tolerance to cis-diamminedichloroplatinum(II)

previous irradiation, mouse kidney,

2-Chloroethyl(methyl-

sulfonyl)methanesulfonate formation of DNA interstrand cross-

leukemic lymphoblasts, 3384
N-(2-Chloroethyl)-N'-cyclohexyl-N-nitro-

sourea V79 spheroids

cytotoxicity enhancement, nitrofuran,

Chloroethylnitrosoureas

cellular resistance

cis-diamminedichloroplatinum(II), glial-derived cell lines, 1361

DNA cross-linking

malignant glioma cell strains, 3988 formation of blocking lesions

identical DNA sequences, 5092 L-1210 leukemia cells

methazolastone-induced DNA damage, repair, 4884 novel reaction of O⁶-alkylguanine-DNA

alkyltransferase

1,3-bis(2-chloroethyl)-1-nitrosourea-

treated DNA, 6185
3-(2-Chloroethyl)-3-nitrosoureido-2-deoxy-D-glucopyranose

human tumor clonogenic cell assay pharmacokinetics, drug exposure, 3718

CHO cells: see Ovary cells, Chinese hamster

Cholecystokinin

plasma

pancreatic carcinogenesis, dietary fat and soybean protein, 1333

Cholesterol

cholesterol epoxides and breast fluid, breast cancer risk factors,

fecal neutral steroids

patients with polyps or cancer, large bowel, 305 low density lipoprotein

receptor stimulation, conditioned medium, 4630

membrane

calcium adenosine triphosphatase, protection from thermal inactivation, 1255

mevalonic acid products cell cycle, SV-3T3 cells, 4825

Choline

devoid diet liver nuclei, hepatocarcinogenesis, 6731

Chondrosarcoma

morphogenetic bone matrix-induced phenotypic modulation, 3589

Choriocarcinoma

invasive mole and chorionic gonadotropins, asparaginelinked sugar chains, 5242

Choriocarcinoma cells inhibition

methotrexate-induced differentiation, thymidine, 5059

Chorionic gonadotropin

disseminated nonseminomatous testicular cancer multivariate analysis, prognostic factors, 2714

modulation

methotrexate, dibutyryl cyclic adenosine monophosphate and/or actinomycin D. 383

Chromatids

G₂ radiosensitivity neoplastic transformation, keratinocytes, 1390

Chromatin

antigenic nucleoproteins oncogene-transformed lung cells, mink, 2284

cancer at the celluar level, 3337 conformation and cell proliferation DNA cleavage, brain tumor cells and fibroblasts, 251

effects of lithocholic acid on DNA, 2866 estrogen receptor binding to nuclei normal and neoplastic mammary tissues, 2852

sues, 2632 glucocorticoid effect melphalan cytotoxicity, melanoma cell lines, 4814

hepatocellular carcinoma

histone levels, methylated DNA, 5407 Chromatography

high performance liquid

5-S-cysteinyldopa, dysplastic melanocytic nevi, 636

Chromosome 7

cytogenetic alterations acquisition, doxorubicin resistance, 6646

involvement in primary lung tumor nonmalignant normal lung tissue, 6349

location of genes invasion and metastasis, 6666

Chromosome 13 partial homozygosity

primary retinoblastoma, 4189 Chromosomes

abnormalities

malignant lymphoma, patients from Saitama, 6767

bypass of genetic defects cell differentiation, malignancy suppression, 1981

characterization of aberrations restrictive temperature incubation, heat-labile DNA polymerase, 5162

damage localization calcium chromate, nickel compounds, 2142

deletion 3 at band q26 establishment of cell line, common acute lymphoblastic leukemia, 1652

different karyotypic patterns stages of neuroblastoma, 311

heterogeneous cytogenetic abnormalities small cell lung cancer, 3322

induced damage hyperthermia and metabolic inhibitors, Chinese hamster ovary cells, 3584

malignant glioma line U-343 MGa progressional changes, platelet-derived growth factor, 4943

markers and histopathology tumor behavior, transitional cell carcinoma of bladder, 6800

mechanisms of tumor progression treatment, 2'-deoxy-5-azacytidine or

hydroxyurea, 2690 monocytic differentiation retinoic acid-induced, transplantable HL60 tumor, 1434 3p deletion

small cell lung cancer, cell line from primary tumor, 2148

Philadelphia

tyrosine protein kinase activity, chronic myelogenous leukemia,

11q24 change

loss of Hu-ets-1 allele, ML cell lines, 3842

18q21 major breakpoint region clonal evolution, follicular lymphoma, 2537

rate of karyotypic instability metastatic potential, B16 murine melanoma, 3835

sister chromatid exchange increased fragile sites, young cigarette

smokers, 6278 solid and ascitic tumor model

human malignant mesothelioma cell line, 3199

Chromosome X clonal analysis

recombinant DNA probes, 4806

renal cell cancer

characterization of two cell lines, 3856

Chrysarobin skin tumor promotion, 3783

C3H 10T1/2 cells chromosome damage localization calcium chromate, nickel compounds,

2142 **DNA** repair

3-aminobenzamide, 1118

increased expression of glucose-related gene, 6220

protease inhibitors

Bowman-Birk type, binding and inter-nalization, 1602

Bowman-Birk type, cell membrane, 1598

thyroid hormone induction

K-ras protooncogene expression, 3methylcholanthrene, 3052

transformation c-myc oncogene, 3643

oncogene-mediated, 4125 Chymotrypsin

Bowman-Birk type cell membrane, possible cell receptor, 1598

CI-921

cell kinetic effects mammalian cells, 424

Cigarette smoking

antitumor activity alveolar macrophages, lung cancer pa-

tients, 2199 cancer

first and second generation Americans,

cell surface protein composition alveolar macrophages, 3072

chemoprevention rationale and strategies, cancer in humans, 3012

constituents in the cervix cervical neoplasia, biochemical epide-

miology, 3886 decreased risk for lung cancer cotton textile industry, Shanghai, 5777 effects of condensate

bronchial epithelial cells, 2045

epidemiology

cell type, cervical cancer, 1706 exposure to tobacco carcinogen cell-selective DNA alkylation, 1143

genetic predisposition bladder cancer, 5488

hemoglobin adducts 4-aminobiphenyl, 602

hepatitis B virus

alcohol consumption, hepatocellular carcinoma, 654

O6-methylguanine-DNA methyltransfer-

human fetal tissues, fetal and maternal factors, 51

relationship to lung cancer pulmonary metabolism, mutagens, 4740

young persons sister chromatid exchange, bone marrow, 6278

Cimetidine

nitrosocimetidine denitrosation species differences, 353

oxidative and conjugative enzymes primary and secondary tumors, liver, 460

Circadian rhythm gating of S phase ovarian cancer, 6267

Cisplatin: see cis-Diamminedichloroplatinum(II)

phosphofructokinase phosphorylation subunit composition, human gliomas, 5047

Clara cells

exposure to tobacco carcinogen cell-selective DNA alkylation, lung, 1143

pulmonary cytochrome P-450 effects, 3-methylcholanthrene and phenobarbital, 1878

Clastogenicity

α-naphthoflavone

Chinese hamster ovary cells, 3662

Clomiphene

biotransformation

chemically reactive metabolites, breast cancer, 4015

genicity

inhibitory effects

N-hydroxy-N'-aminoguanidine derivatives, 975

c-myb

messenger RNA transcription inhibition, myeloblastic leukemia cell nuclei, 1052

c-mvc

altered regulation

HL-60 differentiation resistant subclone, 4595

amplification and expression osteosarcoma cell lines, 3808 small cell lung cancer, 6236

analysis of expression human hepatoma cell line, 3414 c-fos and c-fms

expression, acute myelocytic leukemia,

c-myb expression

normal and neoplastic colonic mucosa, 5266

erythroid differentiation

modulation, antineoplastic drugs and K562 cells, 4544

estradiol-induced expression, 6517 modulation of gene expression

terminal differentiation, induction of transformed cells, 659

molecular alterations

carcinoma of the uterine cervix, 4173

N-myc transcript stability neuroblastoma and retinoblastoma cells, 6310

protooncogene

neurotransmitter receptors, neuroblastoma cell subclones, 5207 transformed C3H 10T1/2 fibroblasts.

3643

Cockayne's cell lines DNA excision repair two pathways, 3725 Coenzyme A oxidase

oxidized gluthione efflux nafenopin, 4795

Coenzyme A reductase and Coenzyme Q mevalonic acid products cell cycle, SV-3T3 cells, 4825

Colchicine

inhibitors of mitosis comparison, 1,2-dihydropyrido[3,4-b] pyrazines, 1621

Collagen

basement membrane type IV degradation, tumor metastasis, 4869 biosynthesis

neuroblastoma cell variants, 6505 **BL6** melanoma

increased metastasis, desmoplasia, 1663

enhancement of cell growth liver epithelial cells, 3802

enrichment and gelatin degrading plasma membranes, human cancer cells, 1608

fibronectin receptor

relationship, tumor cell-cell interac-tion, 5127

heterogeneity

morphologically distinct clones, tumor cells, 6086

Collagenase type IV protease

secretion, metastatic phenotype, 1523

carcinogenesis

enhancement, vasoactive intestinal peptide, 4890

1α-hydroxyvitamin D3-treated animals systemic inhibition, ornithine decarboxylase, 5031

methylazomethanol metabolism effect of chronic dietary ethanol, DNA methylation, 5939

U.S.-Japan Cooperative Cancer Research Program Conference, 922

Colonic crypt cells

cell dynamics neoplastic potential, 4766

proliferative characteristics predictors, subsequent tumor formation, 4766

Colonic epithelium

glycosphingolipid composition premalignant alterations, 1,2-dimethylhydrazine, 1031

Colonic mucosa

carcinogenesis

enhancement, vasoactive intestinal peptide, 4890

cloned sequences in biopsies colonic carcinoma cells, induced differentiation, 6017

normal and neoplastic

c-myb expression, 5266

Colonic neoplasms

artificial heterogeneous growth properties, 1045

azoxymethane-induced

effect, restricted caloric intake, 1226 carcinogenesis

sodium transport, mouse model, 4646 carcinogenesis and azoxymethane metab-

chronic dietary ethanol consumption, 4305

characterization

quantitative mucin variants, 5715

chemically induced

inhibition by caloric restriction, dietary fat. 2759

chemoprevention of carcinogenesis dietary selenium, 5901

c-myb expression

normal and neoplastic colonic mucosa, 5266

DNA in situ denaturation flow cytometry, 3942 dose-related inhibition

prioxicam, 5340 first and second generation Americans,

5771 gastrin receptor regulation

pentagastrin, proglumide, 5000 glycosphingolipid composition premalignant alterations, 1,2-dimethylhydrazine, 1031

GW-39 human tumor xenograft radioimmunotherapy, carcinoem-

bryonic antigen, 5672 Ha-ras p21 expression modification, cell cycle progression, 2826

immune function

multiple infusions, monoclonal antibody 17.1A, 5238

immunodetection

monoclonal antibody localization, 1185

metabolic epidemiology

effect of dietary fiber, fecal mutagens and bile acids, 644

animal model, 1398

nitrosodialkylamines and azoxyalkanes carcinogenesis, 3968

origin of, 4237

ras overexpression, 3763 synergistic antitumor effects

tumor necrosis factor, y-interferon,

synthesis of glycosaminoglycans, 4478 transforming growth factor expression autocrine model, 4590

tumor development

plasminogen activators, 4654 tumor rejection antigen molecules characterization, 3147

Colony-forming units

B16 melanoma lung colonization suppression of, syngeneic monoclonal

antibodies, 2696 polyamine depletion

topoisomerase II DNA cleavage, leukemia cells, 6437

survival

4-hydroperoxycyclophosphamide treatment, bone marrow cells, 6371

Colony-stimulating activity

hematopoietic survival and growth factor monoclonal antibody, myeloid leukemia cell line, 5025

interleukin 1

stimulation, anchorage-independent growth, 5612

Colony-stimulating factor granulocyte/macrophage

native colony-stimulating factor and, clonogenic leukemic blast cells, 5647

production of interleukin 1α-like factor hypercalcemia, squamous cell carcinoma, 6474

trophoblast cell line conditioned medium antigenic characterization, acute mveloid leukemia, 6413

Colorectal cancer cells

metastases

sulfated glycoproteins, 2741

Colorectal neoplasms fucosylglycoprotein

metastatic potential, 881

HLA-D/DR association

CD8-positive T-cells, mononuclear phagocytes, 2919

peritoneal carcinomatosis γ-interferon-activated blood mono-

cytes, fate in abdominal cavity, 6100 plasminogen activators tumor development, 4654

Colorectal polyps

compared to trans-

in vivo DNA-protein cross-linking, 201 fecal neutral steroids

cancer of large bowel, 305

Complements

chemoimmunoseparation

clonogenic T lymphoma cells, bone marrow, 4608

HLA-D/DR association, CD8-positive T-cells in gut tumors, 2919

doxorubicin resistance

melanoma cells, 4601 Concanavalin A

DNA strand break rejoining

sodium transmembrane signal, proliferating lymphocytes, 5397

melanoma-draining lymph nodes suppressor cell activity, 1529

Contraceptives

epidemiology, cervical cancer, 1706

Corn oil

soybean protein and

pancreatic carcinogenesis, plasma cholecystokinin, 1333

Cortisol

effects of γ-interferon

endocrine system, 6397 tyrosine aminotransferase gene expression

liver, 5415

Cortisone acetate

efficacy

antitumor chemotherapy, 5021

Cotton textile industry

decreased risk

lung cancer, Shanghai, 5777

Creatine kinase

effects of estradiol and tamoxifen mammary carcinomas, 1348

Crotonaldehyde

development of immunoassay cyclic DNA adducts, 360

Croton oil

induction of melanoma

evaluation, premalignant and malignant lesions, 1251

CRP: see Protein, C-reactive

TPA-resistant mutants

non-colony-stimulating factor, 2777

Cumene hydroperoxide

drug-induced DNA cross-linking nitrogen mustard-resistant CHO cells, glutathione S-transferase, 6022

Cyanine dye

mitochondrial photosensitization bladder carcinoma cells, 6580

2-Cvanocinnamic acid

oxidizing dyes and

enhanced hyperthermic cytotoxicity, L929 cells, 3341

3'-(3-Cyano-4-morpholinyl)-3'-deaminoadriamycin

cellular pharmacology

colon carcinoma, 4076 effects on DNA

HT-29 human colon carcinoma cells, 5935

Cyclic AMP: see Adenosine cyclic 3':5'monophosphate

Cycloheximide

chromosome aberration characterization restrictive temperature incubation, heat-labile DNA polymerase, 5162

induced chromosome damage

hyperthermia, Chinese hamster ovary cells, 3584

puromycin or

thermotolerance induction, Chinese hamster ovary cells, 5960

Cyclophosphamide

combined with Adriamycin or mesna treatment, mice with tumors, 799

human serum albumin

accelerated decomposition, 4-hydroxycyclophosphamide, 1505

induced testicular cytotoxicity

gonadotropin-releasing hormone analogue, 1093

low dose

effect on immune system, 3317

natural killer cell modulation bropirimine activity, various drugs, 5894

ovarian toxicity

irradiation, 2340

plasma pharmacokinetics intravenous versus oral administration, 2723

Cyclophosphamide analogue

4-hydroperoxycyclophosphamide intrathecal administration, 5932

Cyclosporin A

enhanced daunorubicin efficacy Ehrlich ascites carcinoma, hepatoma 129, 6216

Cysteamine

influence of oxidative stress thermotolerance, Chinese hamster ovary cells, 2268

4-S-Cysteaminylphenol selective cytotoxicity

follicular melanocytes, 3278

impaired glutathione biosynthesis human ataxia-telangiectasia cells, 4576

Cysteine proteinase

plasma membrane-associated cathepsin B-like, metastatic melanoma variants, 6620

5-S-Cysteinyldopa

identified by high performance liquid chromatography dysplastic melanocytic nevi, 636

cell cycle synchronization

microbial iron chelator, L1210 cells, 6010

Cytidine 5'-monophospho-N-acetylneuraminic acid:Galβ1-3-GalNAc-R α(2-3)-sialyltransferase

presence in normal leukocytes activity in granulocytes, chronic myelogenous leukemia, 2763

Cytochalasin B multinucleation

tracheal epithelial cells, 3446

Cytochemistry

ultrastructural morphometry and HL-60 myeloid leukemia cells, 4932

Cytochrome P-450 activity at site of renal carcinogenesis localization, estrogen-induced DNA

adducts, 2156

clastogenicity α-naphthoflavone, Chinese hamster ovary cells, 3662

O-demethylation

etoposide activation, 4658 effects of retinoids

benzo(a)pyrene binding, tissue DNA, 5014

heme enzyme patterns

liver nodules and tumors, 963 inhibition of epidermal monooxygenases plant phenols, 760

liver and kidney regulation

N-nitrosodimethylamine demethylase, 5948

methylcholanthrene-inducible isozyme inducibility phenotype, immunohistochemistry, 6079

monoclonal antibodies

metabolism, aniline and nitrosamines, 3101

plasminogen activator suppression 2,3,7,8-tetrachlorodibenzo-p-dioxin, MCF-7 cells, 6198

preneoplastic and neoplastic lesions nitrosamine-induced hepatocarcinogenesis, 2911

pulmonary

effects, 3-methylcholanthrene and

phenobarbital, 1878

suppression of immune response benzo(a)pyrene, α-naphthoflavone, 2317

Cytokeratin

characterization

human prostatic carcinoma, 281

Cytokines

HL-60-1E3

novel phorbol diester-resistant cell line, 1319

Cytolysis

tumor-killing factor

cellular receptors, analysis, 42

nafenopin-treated liver coenzyme A oxidase role, oxidized glutathione efflux, 4795

reduced DNA methylation levels 5-methylcytosine, melanoma cells, 2264

Cytoskeleton

stress-induced thermotolerance neuroblastoma and hepatoma cells, 1674

Cytosol

Ah receptor in human placenta, 4861 breast tumor progesterone-binding cyst protein,

receptor

structure-activity relationship, 2,3,7,8tetrachlorodibenzo-p-dioxin, 5108 role of free radicals

Adriamycin resistance, small cell lung cancer, 4613

Cytotoxic factor

monocyte-derived

compared to tumor necrosis factor, monocyte-mediated cytotoxicity, 2251

Cytotoxicity

action spectra

epidermal keratinocytes, 1825 activation of monocyte tumoricidal activ-

C-reactive protein, 3959

Adriamycin uptake

temperature dependence studies, 4038 antibody-mediated

MoAb-defined correlations, Gp2 and G_{D3} antigens, 1229

anticancer drug-induced

role of hypoxia, Ehrlich ascites cells, 2407

BCG-activated macrophages

tumoricidal effector mechanisms, 2014 N,N-bis(2-chloroethyl)-N-nitrosourea

hypoxic rat hepatocytes, 5087 N¹,N⁸-bis(ethyl)spermidine

lung cancer cell line, 3964 cadeguomycin

1-β-D-arabinofuranosylcytosine, K562 cells, 713

complement-enhanced doxorubicin resistance

melanoma cells, 4601

culture conditions

generation, LAK cells, 5508 daunorubicin

analysis of enzyme role, somatic cell hybrids, 1924

diphtheria toxin A fragment

toxin-resistant murine cells, pH-sensitive immunoliposomes, 735

DNA fragmentation

5-fluorouracil-induced, T-lymphoma cells, 979

drug-induced

DNA cross-links, melanoma cells, 2631

effect of caffeine

sister chromatid exchange, BCNUtreated brain tumor cells, 5052

enhanced hyperthermic

oxidizing dyes and 2-cyanocinnamic acid, L929 cells, 3341

enhancement

N-(2-chloroethyl)-N'-cyclohexyl-N-nitrosourea in V79 spheroids, nitrofuran. 5303

evaluation of alkylating agents

DNA damage, flow cytometry analysis, 5537

excimer laser radiation mammalian cells, 410

hyperthermic enhancement

cis-diammine-1,1-cyclobutane dicarboxylate platinum(II), 4335

"innocent bystander"

adoptive transfer, mammary tumor immune T-cells, 1105

macrophage-mediated liver, differential sensitivity, 6686

melphalan glucocorticoid effect, melanoma cell

lines, 4814 membrane lipid modification

tumors, 4529

modification disulfide, glutathione depletion, 4391 modulation of 5-fluorouracil

intracellular folate concentration, KB cells, 6444

monocyte-mediated

tumor necrosis factor and monocytederived cytotoxic factor, comparison, 2251

natural killer cell-mediated

susceptibility, leukemic cell lines, 2674 natural killer lysis

target cell cycle, susceptibility, 2767 new class of anticancer drugs

interference, intracellular pH regulation, 1497

polyamine depletion

topoisomerase II DNA cleavage, leukemia cells, 6437

polymorphonuclear leukocytes linear β -1,3-glucan, beige mice, 4842

streptococcal preparation, 6204 quinoneimines and quinonediimines, 2363

radiation

potentiation, recombinant interferons,

selective

follicular melanocytes, 4-S-cysteaminylphenol, 3278 rhodamine 123, 4361

serum albumin-mediated conjugate methotrexate, anti-MM46 monoclonal

antibody, 1076

steroid receptor-mediated antiestrogen and antiprogestin, breast cancer cells, 1441

synergistic enhancement

tumor necrosis factor, topoisomerasetargeted drugs, 2403

testicular

cyclophosphamide-induced, gonadotropin-releasing hormone analogue, 1093

TNF and its muteins

biological effects, tumor and normal cell lines, 145

topoisomerase II inhibitors

cross-sensitivity, CHO cells, 1560

macrophage-mediated, induced by interferons, 2804

use of tiazofurin

guanosine analogues, 1022

Cytotoxic T-lymphocytes antitumor activity

spergualin, L1210 cells, 3062

Cytotoxins

induction of release

bone marrow cells, animal lectin, 47

D

Dacarbazine

novel alternative drug

8-carbamoyl-3-methylimidazo[5,1-d]-1, 2,3,5-tetrazin -4(3H)-one, 5846 prevention of damage

aphidicolin, neoplastic cell DNA, 26 Daunomycin

c-myc expression and differentiation K562 cells, 4544

conjugation to a-fetoprotein postoperative effect, 4293

effect of bisbenzylisoquinoline alkaloids multidrug resistance, KB human cancer cells, 2413

effect on myeloid leukemia

1-β-D-arabinofuranosylcytosine, 2376 lipopolysaccharides and

differentiation therapy, myelomonocytic leukemia, 1668

Daunorubicin

cytotoxicity

analysis of enzyme role, somatic cell hybrids, 1924

enhancement by cyclosporin A

Ehrlich ascites carcinoma, hepatoma 129, 6216

nucleolar protein B23 translocation tumor cells, 3798

1-Deaza-7,8-dihydropteridines

comparison

other inhibitors of mitosis, 1621

3-Deazaguanine

antitumor activity

mechanism of action, 6-thio-3-deazaguanine, 1863

Debrisoquine

genetic predisposition bladder cancer, 5488 Deglycosylation

chemical

ricin A chain, anti-Thy 1.1 antibody, 947

4-Demethoxydaunorubicin

phase I study

children with advanced cancer, 2990 4-Demethylepipodophylotoxin-D-thylidene

glucoside human tumor clonogenic cell assay pharmacokinetics, drug exposure, Densturation

DNA in situ sensitivity flow cytometry, colon carcinoma, 3942

Deoxyadenosine chemoimmunoseparation

clonogenic T lymphoma cells, bone marrow, 4608

2'-Deoxy-5-azacytidine

selection of metastatic variants mechanisms, tumor progression, 2690

Deoxycholate

distribution of protein kinase C colonic epithelial cells, proliferation, 3434

2'-Deoxycoformycin

chemoimmunoseparation

clonogenic T lymphoma cells, bone marrow, 4608

DNA strand breaks

chronic lymphocytic leukemia, 2498

2'-Deoxycytidine

2'-deoxyuridine or thymidine enhanced anti-cancer activity, bis(2chloroethyl)nitrosourea, 394

Deoxycytidine analogues

halogenated pyrimidine radiosensitizers potentiation, carcinoma cells, 5361

Deoxycytidine kinase

effect of 5-azacytidine DNA methylation, 3672

phase II trial for non-Hodgkin's lymphoma

9-β-D-arabinofuranosyl-2-fluoroadenine 5'-monophosphate, 2719

2-Deoxyglucose

autoradiographic imaging sarcoma, different anatomical sites, 4706

Deoxyguanosine

toxicity of 2,6-diaminopurinedeoxyribo-

L1210 cells, 2218 Deoxyguanosine analogues

use of tiazofurin

enhanced metabolism and cytotoxicity, 1022

4'-Deoxy-4'-iodo-doxorubicin

pharmacokinetics

plasma and tissues, compared to doxorubicin, 5401

Deoxyspergualin

pharmacological properties preclinical antitumor activity, 685

2'-Deoxyuridine

2'-deoxycytidine or thymidine enhanced anti-cancer activity, bis(2chloroethyl)nitrosourea, 394

Desferoxamine

antineuroblastoma activity human cell lines, 1749

Deuterium isotope

effect on denitrosation and demethyla-

N-nitrosodimethylamine, rat liver microsomes, 3373

Dexamethasone

altered binding

epidermal growth factor, HBL100 cells, 5888

glucocorticoid effects

androgen-induced Shionogi carcinoma growth, 6560

prolactin release-inhibitory effects pituitary tumor cells, 3667

Devtron

mitomycin C conjugate disposition, normal and tumor-bearing muscles, 5546

streptozotocin-induced

stimulation of tumor growth, 1756

Diacylglycerol derivative phorbol ester and

effect on protein kinase activity, U937 cells, 3344

Diacylglycerols

lipase modification

phorbol diesters, 135

modulation of protein kinase C activa-

palmitoylcarnitine, 6357

2,6-Diaminopurinedeoxyriboside prodrug of deoxyguanosine

L1210 cells, 2218

cis-Diammine(1,1-cyclobutanedicarboxylato)platinum(II)

comparative pharmacokinetics mice and humans, 6297

hyperthermic enhancement of cytotoxic-

leukemia cells, 4335

immunocytochemical detection interaction products, DNA, 6719

pharmacokinetics renal function, 3606

cis-Diamminedichloroplatinum(II)

analogues and

comparative pharmacokinetics, mice and humans, 6297

cellular resistance

chloroethylnitrosoureas, nitrogen mustard, 1361

squamous carcinoma cell line, 388 collateral methotrexate resistance

head and neck carcinoma, 5913 compared to trans-

differential toxicity, mammalian cells,

detoxification

renal metallothionein, 983

diethyldithiocarbamate and hyperthermia

combined effects, 774

differential uptake

L1210 leukemia cells, 6549

α-difluoromethylornithine and schedule dependence, pancreatic can-

cer, 2247 **DNA** adducts

formation, rat tissues, 718

inherent senstivity, embryonal carci-noma cells, 6810

DNA cross-linking

malignant glioma cell strains, 3988 efficacy of two-route chemotherapy

angiotensin (II), limb tumor, 3618

enhanced antitumor effect verapamil, nude mouse-grown human neuroblastoma, 231

enhancement of antineoplastic effects calmodulin antagonists, ovarian carci-

noma, 6459 etoposide and

intraperitoneal administration, pharmacokinetic study, 1712

formation of blocking lesions identical DNA sequences, 5092 high-dose chemotherapy

response of L1210 leukemias, 2323 human tumor clonogenic cell assay pharmacokinetics, drug exposure, 3718

immunocytochemical detection interaction products, DNA, 6719 induced DNA adducts peripheral leukocytes, 3000

interactions with 1-β-D-arabinofuranosylcytosine

LoVo colon carcinoma cells, 3360 intraarterial

uterine cervical cancer, 6134 venous hemodialysis, 1962 L1210 cells

calcium channel activity, membranes, 519

mitomycin C and heat and drug sequencing, 493 multiple mechanisms of resistance leukemia L1210 cells, 2056 potentiation

ifosfamide neurotoxicity, 1457 sensitive and -resistant cell lines ovarian cancer cells, evaluation of platinum analogues, 414

tolerance previous irradiation, mouse kidneys, 1016

DNA cross-linking malignant glioma cell strains, 3988 plus radiation

sister chromatid exchange, anaplastic glioma, 631

2,5-Diaziridinyl-3,6-bis(carboethoxyamino)-1,4-benzoquinone

human tumor clonogenic cell assay pharmacokinetics, drug exposure,

Dibutyryl cyclic adenosine 3':5'-monophosphate

methotrexate and actinomycin D modulation, human chorionic gonadotropin, 383

retinoic acid and differential effects, neuroblastoma cells, 2417

Dicyclohexylammonium sulfate difluoromethylornithine and transformed state, AKR-MCA cells, 4099

5.8-Dideazaisofolic acid mechanism of action

colon carcinoma cells, 5975

chemoprevention rationale and strategies, cancer in humans, 3012 composition

γ-glutamyl transpeptidase, liver, 1130 doxorubicin-induced host toxicity tumor regression, insulin impact, 4318

effect of restricted caloric intake azoxymethane-induced colon tumors, 1226

excess L-tryptophan vitamin B6 deficiency, urinary bladder cancer promotion, 1244

strain differences and ascorbate promotion, urinary bladder carcinogenesis, 3492

Dietary beer ethanol consumption and effects, azoxymethane-induced colonic carcinogenesis, 1551

Dietary fat

chemically induced mammary and colon tumors

inhibition, caloric restriction, 2759 dietary linoleic acid

metastasis enhancement, mammary tumor, 6171

mammary epithelium proliferative activity, 4905

modulation of mammary tumor metabolism

³¹P-nuclear magnetic resonance spectroscopy, 5631

soybean protein and

pancreatic carcinogenesis, plasma cholecystokinin, 1333

Dietary fiber

fecal mutagens and bile acids metabolic epidemiology, colon cancer, 644

Dietary linoleic acid metastasis enhancement transplantable mammary tumor, 6171

Dietary organoselenium chemoprevention

colonic carcinogenesis, 5901 2-(Diethylamino-2 ethyl)9-hydroxy ellipticinium-chloride,HCl

physicochemical and pharmacological properties, 6254

Diethyl-1-[3-(2-chloroethyl)-3-nitrosoureido] ethylphosphonate

phase I study, 6782 Diethyldithiocarbamate cisplatin and hyperthermia combined effects, 774

inhibition multistage tumor promotion, skin, 6302

Diethylnitrosamine

continuous exposure molecular dosimetry, O'-ethyldeoxythymidine, 1577

expression of retroviral sequences oncogenes, rat liver tumors, 3421 **GGT-positive foci**

irreversibility, 2328 γ-glutamyl transpeptidase histochemistry effects of rat strain, diet composition and phenobarbital, 1130

tumorigenicity transmission failure, Syrian hamster generations, 5112

N,N-Diethyl-2-[(4-phenylmethyl)-phenoxyl-ethanamine hydrochloride histamine and growth

calcium channels, 4025

Diethylstilbestrol estrogen and progestin receptor concentrations

regulation of, prostatic carcinoma, 2645

pharmacological concentrations of estrocell cycle kinetics, breast cancer, 5323

receptor/genital tract changes, 4165 transplacental effects mammary development, tumorigenesis, 4508

Diethylstilbestrol diphosphate intermittent administration prostatic carcinoma, 5967 Differentiation antigens

hematopoietic-specific K562 cells, 4254 monoclonal antibodies

ovarian carcinoma ascites cells, 6741 Difluoromethylornithine

dicyclohexylammonium sulfate and transformed state, AKR-MCA cells,

plus methylthioadenosine synergistic inhibition, polyamine syn-thesis and growth, 1771

resistant lung cancer cell line cytotoxicity, N1,N8bis(ethyl)spermidine, 3964 α-Difluoromethylornithine

biochemical marker excretion, decarboxylated-S-adenosylmethionine, 890

changes in glutathione content 9L cells, 5270

cis-diamminedichloroplatinum(II) and schedule dependence, pancreatic cancer, 2247

effects of progestins growth in culture, breast cancer, 3066

Friend erythroleukemia cells, 2638 urinary bladder carcinogenesis, 6176

intravenous polyamine levels, transplantable fibrosarcoma, 1836

polyamine depletion topoisomerase II DNA cleavage, leu-

kemia cells, 6437 sensitization to heat shock Chinese hamster ovary cells, 816

DL-α-Difluoromethylornithine antimetastatic activity

mice, 933 5,6-Dihydro-5-azacytidine fetal hemoglobin gene activation bronchogenic carcinoma, 4199

3,4-Dihydro-2,2-dimethyl-2H-naphtho[1,2b|pyran-5,6-dione potentiation

halogenated pyrimidine radiosensitizers, carcinoma cells, 5361

Dihydrodiol dehydrogenase tissue distribution indomethacin, 6-medroxyprogesterone acetate, 680

Dihydrodiols metabolic activation of methylchrysenes,

Dihydrofolate reductase

N10-propargyl-5,8-dideazafolate synergistic growth inhibition, hepatoma cells, 5256 trimetrexate pediatric phase I trial, 4973

1,2-Dihydropyrido[3,4-b]pyrazines comparison other inhibitors of mitosis, 1621

trans-7,8-Dihydroxy-7,8-dihydrobenzo(a)pyren BaP and anti-BPDE

contrasting deposition and metabo-

lism, epidermis, 5354 7β,8α-Dihydroxy-9α,10α-epoxy-7,8,9,10-tetrahydrobenzo(a)pyrene BaP and BaP-7,8-diol

contrasting deposition and metabolism, epidermis, 5354

(±)-7r,8t-Dihydroxy-9t,10t-epoxy-7,8,9,10tetrahydrobenzo(a)pyrene initiation of hepatocarcinogenesis, 3771 1,25-Dihydroxyvitamin D₃

control of HL-60 cell differentiation after precommitment, 129

receptor immunocytochemical detection, breast

cancer, 6793 suppression of in vivo growth solid tumor xenografts, 21

1α,25-Dihydroxyvitamin D₃ induction of differentiation myeloid cell lines, 2236

treatment with analogues growth control, myeloid leukemia cells, 567

7,12-Dimethylbenz(a)anthracene benzo(a)pyrene binding and nuclear macromolecules, mammary epithelial cells, 2609

benzo(a)pyrene-induced alterations binding to DNA, epidermis, 3701 carcinogen-altered mammary epithelium proliferation, 4425

carcinogenic potency bacterial mutagenicity, 1509 cytochalasin B-induced multinucleation

tracheal epithelial cells, 3446 DNA adducts interspecies differences, mammary

cells, 4402 SENCAR, BALB/c mice, 4571 induced mammary carcinoma

tamoxifen reversal, progesterone, 5386 induced mammary tumors inhibition by caloric restriction, dietary fat, 2759

induction of contact hypersensitivity, 6074

induction of melanoma evaluation, premalignant and malignant lesions, 1251

inhibited PAH-DNA adduct formation plant phenols, epidermis and lung, 767 in vivo transformation mammary epithelial cells, serum-free

in collagen gels, 275 N,N-Dimethylformamide

retinoic acid and TGF-β induced mitogenesis, embryo fibroblasts, 4278

solvents differentiation, HL-60 cells, 140 1,2-Dimethylhydrazine

colonic crypt cell dynamics neoplastic potential, 4766 glycosphingolipid composition

premalignant alterations, colonic epithelial cells, 1031

induced colonic tumors inhibition by caloric restriction, dietary fat, 2759

sodium transport colonic carcinogenesis, mouse model,

Dimethylnitrosamine carcinogenesis

cadmium exposure, 6606 Dimethyl sulfoxide

sodium butyrate depletion from culture Friend erythroleukemia cells, differentiation, 378

3',5'-Dioctanoyl-5-fluoro-2'-deoxyuridine

selective anticancer effects hepatic cancer, VX-2 tumor, 1930 Diol epoxide

bay region methyl group tumorigenicity, newborn mice, 5310

1,6-Diphenyl-1,3,5-hexatriene plant glycoside modulation differentiation, B16 melanoma cells,

Diphtheria

toxin A fragment cytotoxicity, pH-sensitive immunoli-posomes, 735

Disialogangliosides

Gnz monoclonal antibody localization, osteosarcoma, 5377

neuroblastoma cells, MoAb-mediated cytolysis, 1098 Disulfide

modification of antitumor cytoxicity glutathione depletion, murine cells,

DNA

absence of overreplication inhibitors of DNA synthesis, Chinese hamster cells, 5595

O6-alkylguanine-DNA alkyltransferase measurement

restriction endonuclease inhibition, 6229

amplification neuroblastoma xenografts, 3291 amplification and metastases

melanoma cell line, 3851 amplification and overexpressed sequences

isolation, Adriamycin-resistant breast cancer cells, 5141

asynchronous replication ultraviolet light, polyoma, 4565 benzo(a)pyrene binding

effects of retinoids, metabolizing enzymes, 5014 binding

benzo(a)pyrene, 7,12-dimethylbenz(a)anthracene, 3701

polycyclic aromatic hydrocarbons, mammary epithelial cells, 2609 prostaglandin H synthase, 2-naphthylamine, 4007

binding protein avian acute leukemia viruses, 6586 cell kinetic effects

CI-921, mammalian cells, 424 cell selective alkylation

exposure to tobacco carcinogen, lung, 1143 cleavage

cell proliferation and chromatin conformation, brain tumor cells, 251

cleaving capacity nafidimide, leukemia, 1040 c-myc oncogene

transformation of C3H T101/2 cells, 3643

complementary genetics, multidrug resistance, 5982 glutathione-S-transferase, class π messenger RNA, 5626

P-glycoprotein expression, human breast cancer cells, 2103 content and proliferative activity

prognostic significance, large bowel

carcinoma, 5494 cytochrome P-450-mediated O-demethylation

etoposide activation, 4658

detection of human papillomavirus invasive carcinomas, cervix, 649

cis-diamminedichloroplatinum(II) and 1β-D-arabinofuranosylcytosine interactions, LoVo colon carcinoma cells, 3360

differential induction of breaks 3-aminobenzamide, C3H 10T1/2 cells, 1118

effects of lithocholic acid, 2866 excision repair

two pathways, sun-sensitive humans, 3725

fetal

transplacental carcinogenesis, ethylnitrosourea-induced, 348

fragmentation

5-fluorouracil-induced, T-lymphoma cells, 979

fragmentation in liver

N-nitroso compounds, dose-response curves, 3485

5-hydroxymethyluracil content Chinese hamster cells, 3-aminobenzamide toxicity, 4372

hypomethylation pathological conditions, human pros-

tate, 5274 identical sequences

formation of blocking lesions, nitrosourea and platinum, 5092

image cytometry advanced ovarian cancer, 3938 immunocytochemical detection of inter-

action products cis-diamminedichloroplatinum(II), cisdiammine(1,1-cyclobutanedicarboxy-

lato)platinum(II), 6719 incorporation 1-β-D-arabinofuranosylcytosine, 6532

index and S-phase fraction prognosis, nodes positive early breast cancer, 4729

induction of strand breaks 2'-deoxycoformycin, chronic lymphocytic leukemia, 2498

in situ sensitivity to denaturation flow cytometry, colon carcinoma, 3942

progressive formation, hydroxyureatreated cells, 2755

liver nuclei choline-devoid diet, hepatocarcinoge-

nesis, 6731 N-methyl-N'-nitro-N-nitrosoguanidine

amplification, poly(ADP-ribose) synthesis, 3632 multidrug-resistant gene

transfer and cloning, 2620

yield, DNA-protein cross-links, 2032 polymerases

effects of suramin, lymphoid cells, 4694

protein cross-links

comparison, cis- and trans-diamminedichloroplatinum(II), 201

recombinant probes

clonal analysis, chromosome X, 4806 relationship of content to survival

flow cytometry, prostate cancer, 2504 renal cell carcinoma

long-term serial transplantation, 221 strand breaks

resistance to anthracyclines, 3752 thymine transversion

activated c-Ha-ras oncogene, stomach cancer, 3195

topoisomerase II-mediated breaks cell cycle, NIH 3T3 fibroblasts and L1210 cells, 2050

transformation of host cells primary transfection, tumor cells, 5194

unscheduled synthesis mutagenicity of 1-nitropyrene, hepatoma cell line, 3163

viral

macrophage accessory cell dysfunction, osteopetrosis, 6033 **DNA** adducts

benzo(a)pyrene

genotoxic effects, mammalian cells, 3388

benzo(c)phenanthrene cell culture, 4032

cis- and trans-diamminedichloroplatinum(II)

differential toxicity, mammalian cells,

cis-diamminedichloroplatinum(II) embryonal carcinoma cells, inherent sensitivity, 6810 peripheral leukocytes, 3000

rat tissues, 718

cyclic

development of immunoassay, exposure to crotonaldehyde, 360 estrogen-induced

cytochrome P-450 localization, renal carcinogenesis, 2156

formation

7,12-dimethylbenz(a)anthracene, SEN-CAR and BALB/c mice, 4571 6-nitrochrysene, lung and liver, 6272

hemoglobulin tobacco-specific nitrosamines, 2626 human lymphoblast cells

killing and mutation, aflatoxin B1, 1993

inhibited formation PAHs, plant phenols, 767

interspecies differences benzo(a)pyrene, 7,12-dimethylbenz(a)anthracene, 4402 8-methoxypsoralen-DNA photoadducts

immunological detection, visualization, 2451

microfluorometric determination liver, 2-acetylaminofluorene, 2098 molecular dosimetry

4-(N-methyl-N-nitrosamino)-1-(3-pyridyl)-1-butanone, neoplasia induction, 6058

32P-postlabeling

fish from polluted areas, 6543 prostaglandin H synthase-catalyzed metabolism

2-naphthylamine, 4007 DNA cross-linking

1,3-bis(2-chloroethyl)-1-nitrosourea polyamine-depleted cells, 4538 2-chloroethyl(methyl-

sulfonyl)methanesulfonate

leukemic lymphoblasts, 3384

effects of 3'-(3-cyano-4-morpholinyl)-3'deaminoadriamycin

HT-29 human colon carcinoma cells, 5935 formation and removal

drug-induced cytotoxicity, melanoma cells, 2631

malignant glioma cell strains

chloroethylnitrosoureas, cisplatin and diaziquone, 3988

novel reaction of O'-alkylguanine-DNA alkyltransferase

1,3-bis(2-chloroethyl)-1-nitrosoureatreated DNA, 6185

reduced levels

nitrogen mustard-resistant CHO cells. glutathione S-transferase, 6022

single-strand breaks and 4-hydroperoxycyclophosphamide, phosphoramide mustard, 5421

DNA damage

Adriamycin cytotoxicity effect of caffeine, Chinese hamster cells, 2224

avarol-induced

Friend erythroleukemia cells, 6565 carcinogenesis research

human tissues and cells, 1

dacarbazine

prevention by aphidicolin, neoplastic cells, 26

effect of sodium chloride concentration Adriamycin, V79 cells, 1853

etoposide accumulation and effects of microtubule inhibitors, K562 cells, 1010

ferric nitrilotriacetate hydrogen peroxide and, hydroxyl radi-

cal production, 6522 flow cytometry analysis

cytotoxicity evaluation, alkylating agents, 5537

liver DNA fragmentation N-nitroso compounds, dose-response curves, 3485

melphalan adducts immunological detection, monoclonal antibodies, 1542

methazolastone-induced

chloroethylnitrosoureas, L-1210 leukemia cells, 4884 repair and

heterogeneity, mammalian genome, 6426

sister chromatid exchange

increased fragile sites, young cigarette smokers, 6278

small cell lung carcinoma

Adriamycin-resistant cell line, drug resistance, 1780

DNA methylation

5-azacytidine effect

malignant transformation, chemical carcinogen-resistant cell line, 4894 effect of 5-azacytidine

lymphoid cell lines, 3672

hypomethylation

pathological conditions, human prostate, 5274

methylazomethanol metabolism effect of chronic dietary ethanol, colon and liver, 5939

reduced levels

5-methylcytosine, melanoma cells, 2264

reduced levels of histones

hepatocellular carcinoma chromatin, 5407

transforming activity

human Ha-ras oncogene, 75

DNA polymerase

heat-labile

chromosome aberration characterization, restrictive temperature incubation, 5162

mammalian

inhibition, α-interferon and γ-interferon, 5971

α-DNA polymerase

evaluation of growth fractions monoclonal antibodies, 1892

DNA repair

bleomycin-sensitive Chinese hamster ovary cells isolation, characterization, 1588

carcinogenesis research

human tissues and cells, 1

damage and

heterogeneity, mammalian genome, 6426

denV gene of bacte.iophage T4 complementation, Xeroderma pigmentosum cells, 2967

G₂ chromatid radiosensitivity neoplastic transformation, keratinocytes, 1390

methazolastone-induced DNA damage chloroethylnitrosoureas, L-1210 leukemia cells, 4884

pathways

sun-sensitive humans, 3725 progressive formation of lesions hydroxyurea, Ehrlich ascites tumor cells, 2755

rejoining of strand breaks

sodium transmembrane signal, proliferating lymphocytes, 5397 role of free radicals

Adriamycin resistance, small cell lung cancer, 4613

role of polymerase α xeroderma pigmentosum Group C cells, 2393

slow rejoining

UV-irradiated fibroblasts, trypsin and insulin, 4378

uracil-DNA glycosylase

human base excision repair enzyme, biosynthesis, 123

DNA synthesis O6-alkylguanine

bone marrow hematopoietic precursors, 89

effects of adenine and guanine starvation nucleotide precursors, 4047

antiproliferative response, leukemic cells, 4345 inhibition of methotrexate-induced dif-

ferentiation thymidine, choriocarcinoma cells,

5059 inhibition of 12-O-tetradecanoylphorbol-13-acetate induction ornithine decarboxylase, ascorbic acid,

6633 modulation of chorionic gonadotropin methotrexate, dibutyryl cyclic adenosine monophosphate and/or actinomycin D. 383

stimulation

hepatic stimulatory substance, extraction and purification, 5600

12-O-tetradecanoylphorbol-13-acetate phenobarbital and, hepatocytes, 5665

DNA topoisomerase I

inhibition

intracellular effects, camptothecin, 1793

DNA topoisomerase II

determinant of antineoplastic drug action, 3973

Dolichol

mevalonic acid products mediators of cell proliferation, SV40transformed 3T3 cells, 4825

Dosimetry

cytostatics

isolation perfusion of limbs, blood volume determination, 639

O4-ethyldeoxythymidine

continuous exposure, diethylnitrosamine, 1577

Doxorubicin

acquisition of resistance

cytogenetic alterations, chromosome 7, 6646

cardiotoxicity

prevention, fructose-1,6-bisphosphate,

cell cycle synchronization

microbial iron chelator, L1210 cells, 6010

complement-enhanced resistance melanoma cells, 4601

contained in liposomes

lipid composition and antitumor activity, rat solid tumor model, 3366 DNA strand breaks

resistance to anthracyclines, P388 leukemia, 3752

induced cardiomyopathy

genesis, role of phospholipase, 1239 induced host toxicity

tumor regression, insulin impact, 4318 metabolism and toxicity in rabbits

sublethal hepatic damage, allyl alcohol-induced, 3259

nucleolar protein B23 translocation tumor cells, 3798

pharmacokinetics of 4'-deoxy-4'-iododoxorubicin

plasma and tissues, tumor-bearing mice, 5401

Drug delivery intraarterial cis-diamminedichloroplatinum(II)

venous hemodialysis, 1962

Drug resistance cellular

amsacrine, myelogenous leukemia cell line, 1897

P-glycoprotein expression

human breast cancer cells, 2103 multifactorial

Adriamycin, small cell lung carcinoma, 1780

multiple leukemic cell line, resistance to teniposide, 1297

multiple mechanisms

cis-diamminedichloroplatinum(II), L1210 cells, 2056

reversal

effect of verapamil, distribution of anthracyclines, 1421

oxidizing

2-cyanocinnamic acid and, enhanced hyperthermic cytotoxicity in L929 cells, 3341

Dysplasia

placental form of uterine cervix lesions immunohistochemical detection, glutathione S-transferase, 6806

Ectosialyltransferase Hodgkin's cell lectin, 2461

Effector cells

anticoagulant drugs

augmentation, antimetastatic effect,

effects of growth factors

antiproliferative activity, tumor necrosis factor, 780

local antitumor

specific induction, circulating lymphocyte pool, 5581

long term IL-2-dependent growth tumor-infiltrating lymphocytes, squamous cell carcinoma, 6353

Ehrlich ascites tumor cells

human antibody to F9 embryoglycan germ cell tumors, 2288

hydroxyurea-treated

DNA lesions, progressive formation,

phosphorylation of 1-β-D-arabinofuranosylcytosine role of uridine triphosphate, 1820

role of hypoxia anticancer drug-induced cytotoxicity,

2407 suppression of hypertriglyceridemia

ascofuranone, 96

Eicosanoids

biosynthesis

tumor cell-platelet-endothelial cell interactions, 2425

Elastase

serum α-1 proteinase inhibitor advanced cancer, 1179

Ellipticines

inhibition of epidermal monooxygenases plant phenols, 760

Elliptinium acetate

new congener

physicochemical and pharmacological properties, 6254

Embryo cells

Chinese hamster

promoting effects, 7-methylguanine, 2440

differentiation of carcinoma cells high affinity receptors, transforming growth factor-β, 4386

DNA cross-linking and single strand breaks

4-hydroperoxycyclophosphoramide, phosphoramide mustard, 5421

survival after hyperthermia antioxidant enzymes, 3473

TGF-β induced mitogenesis

N,N-dimethylformamide, retinoic acid, 4278

V-src amplification

tumorigenic phenotype correlation, 4663

Embryoglycan

human antibody

germ cell tumors, 2288

EMT6 tumor cells

hypoxic

drug uptake and toxicity, porfiromycin, 5654

Endocrine neoplasms

somatostatin receptors, 551

Endocrine response

advanced carcinoma of breast effect of tamoxifen, progesterone receptor, 300

progesterone receptor heterogeneity, prediction, 296

effects of y-interferon, 6397

therapy

hormone-dependent mammary tumor model, 4093

Endothelial cells

divergent effects

epidermal growth factor, transforming growth factor, 4909

extracellular matrix

role of platelet membrane, tumor cell adhesion enhancement, 6751

tumor cell-platelet interactions eicosanoid biosynthesis, 2425

Endothelium

capillary

tumor cells and, specificity of adhesion, 1492

Endotoxins

decreased risk for lung cancer cotton textile industry, Shanghai, 5777

Enolase

serum pseudouridine

biochemical marker, small cell lung cancer, 6138

Enzymes

analysis of role

use of somatic cell hybrids, daunorubicin cytotoxicity, 1924 antioxidant

embryo cell survival, hyperthermia,

3473 heme patterns liver nodules and tumors, 963

membrane-associated

protease inhibitors, Bowman-Birk

type, 1598 metabolizing

effects of retinoids, benzo(a)pyrene binding, 5014

oxidative and conjugative primary and secondary tumors, liver,

460 **Ependymoma**

human xenograft HxBr5

development, characterization, 499

Epidemiology

cell type cervical cancer, 1706

dietary aflatoxin B₁ correlation, excretion of M1 in urine, 1848

Epidermal cells

carcinogenesis

combined treatments, selenium/gluta-

thione/vitamin E, 477 differentiation calcium, TPA, 2831 epidermal growth factor transforming growth factor, growth regulators, 6705 primary

bryostatin 1 blockade, phorbol ester tumor promoters, 5445 terminal differentiation-resistant

two-stage carcinogenesis, 1935

Epidermal growth factor altered glucocorticoid binding HBL100 cells, 5888

binding in a Simian virus 40-3T3 variant differential responsiveness, retinoic acid, 4995

biological effect

in vitro growth, human tumors, 403 effects on antiproliferative activity tumor necrosis factor, 780 effects on normal and malignant urothe-

lium, 2230

implantation and growth mammary tumor, 4651

inhibition

pancreatic acini, palmitoyl carnitine,

lack of receptor gene expression small cell lung carcinoma cells, 2668 normal and neoplastic urothelium serum-free medium, 2107 patterns of ligand binding hepatocarcinogenesis, 3954

primary solid lung tumors use in culture, 2903

receptors

analysis, head and neck tumors, 3603 characterization, human meningioma,

heterologous regulation, palytoxin, 4618

messenger RNA synthesis, TGF-α and $-\beta$, 707

monoclonal antibody, glioma xenografts, 3847

monoclonal antibody, tumor growth modulation, 3692 transforming growth factor-β, breast

carcinoma, 4260 tumor-associated antigens, carcinoma,

2531 regulation of protein kinase C normal and transformed cells, 1081

relationship to TGF-a α-fetoprotein, hepatocellular carci-

noma, 896 toxin conjugate-resistant KB cell lines, 2961

transforming growth factor expression autocrine model, colon cancer lines,

divergent effects, endothelial cell line, 4909

growth and differentiation, epidermal cells, 6705

inhibition of proliferation, hepatocytes, 6595 urinary transforming growth factor

brain tumor-associated, 1190 **Epidermis**

altered keratin biosynthesis 12-O-tetradecanoylphorbol-13-acetate, 4674

contrasting deposition and metabolism anti-BPDE, BaP and BaP-7,8-diol, 5354

DNA adduct formation

7,12-dimethylbenz(a)anthracene, SEN-CAR and BALB/c mice, 4571 DNA binding

benzo(a)pyrene, 7,12-dimethylbenz(a)anthracene, 3701

inhibited PAH-DNA adduct formation plant phenols, 767

inhibition of 12-O-tetradecanoylphorbol-13-acetate induction

ornithine decarboxylase activity, ascorbic acid, 6633

ornithine decarboxylase gene expression two-stage tumorigenesis, 1221

TPA-induced xanthine dehydrogenase conversion, xanthine oxidase, 1775 tumorigenicity

bay region methyl group, newborn mice, 5310

4'-Epidoxorubicin

effect on myeloid leukemia 1-β-D-arabinofuranosylcytosine, 2376

Epipodophyllotoxins

resistance leukemic cells, atypical multiple drug resistance, 1297

topoisomerase II inhibitors cross-sensitivity, CHO cells, 1560

Epirubicin high-dose

phase I-II, lymphoma, 6393

Epithelial cells bronchial

effects, cigarette smoke condensate, 2045

carcinogenesis research, 1 cell surface antigen

gastrointestinal tumors, human sera, 3873

cervix

characterization of keratins, 6678

proliferation potential, 1646 colonic

distribution of protein kinase C, proliferation, 3434

glycosphingolipid composition, premalignant alterations, 1031 **Ewing sarcoma**

intermediate filaments, characterization, 1170

fetal

contact insensitivity, human carcinoma cell line, 1634

human breast carcinoma-derived preservation, phenotypic traits, 856 importance of extended growth potential neoplastic potential, mammary carci-

noma cells, 5316 liver

cell growth, laminin enhancement,

tumorigenicity, ras oncogene transfection, 4116

lung

predisposition to transformation, benzo(a)pyrene, 1155

lung carcinoma-derived growth factors, 2903

mammary

binding, polycyclic aromatic hydrocar-

bons, 2609

growth and continuous passage, serum-free medium, 3776 in vivo transformation, serum-free in

collagen gels, 275 novel transforming growth factor

purification, characterization, 4552 phenotypic modulation tumorigenesis, 1282

respiratory effect of phorbol esters, clonal cultures, 541

surface epitope characterization monoclonal antibody, tumor diagnosis, 4417

Epithelium intestinal

therapeutic selectivity, F-Ara-A, 700 mammary

proliferative activity, dietary fat and calcium, 4905 sodium transport

colonic carcinogenesis, mouse model, 4646

Epitopes

analogy

potent immunosuppressant, fetal haptoglobin, 5120

carbohydrate

tumor-associated, squamous lung cancer, 6697

common acute lymphoblastic leukemia antigen

detection, monoclonal antibodies, 2160

core protein of milk mucin reactive monoclonal antibodies, breast cancer, 5476

human epithelial cells

monoclonal antibody, tumor diagnosis, 4417

Epstein-Barr virus

amplification unit in melanoma cells partial homology, 4485 immortalized B-cells

transformation, chemical carcinogens, 527

in vitro transformation

B-cell follicular lymphoma cells, 2062 Raji cells

induction of virus enzymes, phorbol esters and N-butyrate, 4407

Sapporo Cancer Seminar, 918 Erythrocytes

human and goose

differentiation, phorbol ester receptors, 4830

inositol lipid metabolism inhibition, Adriamycin, 2799 Erythroleukemia

Friend: see Friend erythroleukemia Erythroleukemia cells

differentiation effect of trichostatins, 3688

Erythropoiesis

90Y-labeled monoclonal antibody

specific radioimmunotherapy, 1905 Escherichia coli

mutagenicity experiments agroclavines, 1811

E5166: see Polyprenoic acid E7SKS cells

TPA-induced translocation protein kinase C, 2892

Esophageal neoplasms

first and second generation Americans, 5771

Esophagus

carcinogenesis

N,N-dibutylnitrosamine, antioxidants,

U.S.-Japan Cooperative Cancer Research Program Conference, 922

Estradiol

bioavailability

marker, breast cancer risk assessment, 5224

effects of progestins

growth in culture, breast cancer, 3066 estrogen conjugates and serum factors estrogenic trophic effect, MCF-7 cells, 5883

induced c-myc expression, 6517

tamoxifen and

effects on creatine kinase, mammary carcinomas, 1348

178-Estradiol

direct action on mammary ducts sustained release implants, steroid autoradiography, 6052

R5020 and

glucose-6-phosphate dehydrogenase activity, MCF-7 cells, 5116

Estragole

structure-activity studies hepatocarcinogenesis, 2275

Estrogens

absence of

MCF-7 cell proliferation, 4355

A-ring substituted

inhibition, MXT transplantable mammary ductal carcinoma, 4623

binding proteins

variants, rat mammary tumor, 4287 characterization of keratins

cervical epithelial cells, 6678

conjugates

serum factors and, estrogenic trophic effect on MCF-7 cells, 5883 cytosolic

nuclear receptors, quantitation, 1830 GGT-positive foci

irreversibility, 2328

growth-stimulating effect

andragen-dependent Shionogi carcinoma 115, 263

induced c-myc expression breast cancer cells, 6517

induced DNA adducts

cytochrome P-450 localization, renal carcinogenesis, 2156

glycoprotein Mr 39,000, breast cancer cells, 1234

inhibition of melanoma growth, 453 pharmacological concentrations

cell cycle kinetics, breast cancer, 5323 plasminogen activator suppression

2,3,7,8-tetrachlorodibenzo-p-dioxin, MCF-7 cells, 6198

progesterone receptors

progestin growth inhibition, endometrial cancer cells, 1918

concentration regulation, prostatic carcinoma, 2645

detection with monoclonal antibody techniques, breast cancer, 6572

mRNA, breast cancer, 6653

prognostic value, node negative breast cancer, 6126

status and presurgical determination. breast cancer, 6118

receptor-positive cells

distribution, normal non-lactating breast tissue, 5748

response of squamous cell line esophageal carcinoma, 4134

118-substituted aromatic hydroxylation, hormonal carcinogenesis, 2583

tumorigenicity

v-ras oncogene transfection, breast cancer, 5733

uterine receptors

effects of polyamines, 1799

Ethacrynic acid

drug-induced DNA cross-linking nitrogen mustard-resistant CHO cells. glutathione S-transferase, 6022

Ethanol

chronic

metabolism of methylazomethanol, colon and liver, 5939

chronic dietary beer and

effects, azoxymethane-induced colonic carcinogenesis, 1551

chronic dietary consumption

colonic carcinogenesis, azoxymethane metabolism, 4305

metabolism of azoxymethane

microsomal metabolism, N-nitrosodimethylamine, 3123

MoAb to cytochrome P-450

metabolism, aniline and nitrosamines, 3101

Ether

bonds

hematoporphyrin derivative, tumor-localizing components, 3439

elimination, leukemic cells, 2599

Ether derivatives

lysophospholipids and

activation, peritoneal macrophages, 2008

adjunctive use

free radical-generating chemotherapeutic agents, 5411

Ethoxyquin

protective effect

metabolic basis, aflatoxin B1 hepatocarcinogenesis, 5218

Ethylamide

effects of ionizing radiation development, ovarian follicles, 5005

10-Ethyl-10-deazaaminopterin

toxicology and pharmacology, 2334

O4-Ethyldeoxythymidine molecular dosimetry

continuous exposure, diethylnitrosamine, 1577

Ethylenediaminemalonatoplatinum(II)

comparative pharmacokinetics mice and humans, 6297

Ethylnitrosourea

induced transplacental carcinogenesis fetal DNA, 348

17α-Ethylnylestradiol

GGT-positive foci irreversibility, 2328 7-Ethyl-10-[4-(1-piperidino)-1-piperidino] carbonyloxy-camptothecin

antitumor activity murine tumors, 5944

Etoposide

activation

O-demethylation, cytochrome P-450, 4658

comparative cytotoxicity

drug combinations, normal hematopoietic precursors, 119

cis-diamminedichloroplatinum(II) and intraperitoneal administration, pharmacokinetic study, 1712

effects of microtubule inhibitors DNA damage, K562 cells, 1010

72-hour continuous infusion phase I study, patients with advanced cancer, 1952

multidrug resistance

phorbol ester receptor, P388 murine leukemic cells, 3460

peroxidase-catalyzed metabolism binding of intermediates, cellular macromolecules, 5835

topoisomerase II

cell proliferation, NIH 3T3 fibroblasts and L1210 cells, 2050

TPA transient protection antitumor agents, cultured human cells, 433

secretory epithelial cell marker gastrointestinal tumors, 2092

Extracellular matrix

degradation

glycosidase role, ovarian carcinoma, 4634

heterogeneity

collagens and fibronectin, morphologically distinct clones, 6086

metastatic melanoma variants cathepsin B-like cysteine proteinase,

plasma membrane-associated, 6620 modification of tumor histology point mutations, v-fps oncogene, 6341

normal leptomeningeal proteins growth and differentiation, glioma, 3515

tumor cell adhesion

enhancement, role of platelet membrane, 6751

Fab fragments anti-carcinoembryonic antigen monoclonal antibodies, tumor spheroids, 1627

Tc(Sn)- and 131I-labeled, pharmacokinetics, 1691

G_{D2}-specific monoclonal antibody localization, osteosarcoma, 5377

Familial polyposis expression of cloned sequences in biopsies

colonic carcinoma cells, 6017

Fanconi's anemia cis-diamminedichloroplatinum(II) DNA adducts

inherent sensitivity, embryonal carcinoma cells, 6810 F-Ara-A: see 9-β-D-Arabinofuranosyl-2-

fluoroadenine

Fasting

blood nutrient concentrations tumor growth, 1065

production of lipolytic and proteolytic factors

tumor-producing cachexia, host, 5919

Fatty acids

benzo(a)pyrene metabolism phorbol ester binding, C3H 10T1/2

cells, 2385 chemically induced mammary and colon tumors

inhibition by caloric restriction, dietary fat, 2759

dietary linoleic acid

metastasis enhancement, mammary tumor, 6171

membrane lipid modification

tumors, 4529

F9 cells

embryoglycan

human antibody, germ cell tumors, 2288

origin of colon cancer, 4237

mutagenic metabolites MeIQx, cooked meat, 791

Feeding

nutritional support

bone marrow transplant recipients,

Feline leukemia virus

3'-azido-3'-deoxythymidine model for AIDS, 3190

Ferric nitrilotriacetate

hydrogen peroxide and hydroxyl radical production, DNA damage, 6522

induced renal cell carcinoma subacute nephrotoxicity, 1867

Ferritin

anti-human monoclonal antibody Adriamycin entrapped in liposomes, targeting therapy, 4471 antineuroblastoma activity of desferoxamine

human cell lines, 1749

α-Fetoprotein

conjugation to daunomycin postoperative effect, 4293

hybridization studies

early stage, neoplastic transformation in liver, 5469

TGF- α and epidermal growth factor, hepatocellular carcinoma, 896 serum albumins and

facile resolution, metal affinity chromatography, 3624

FG cells

pancreatic cancer antigens monoclonal antibodies, 1367

anticoagulant drugs

augmentation, antimetastatic effect, 200

fibrin clot subrenal capsule assay rapid growth, human cancer cells,

Fibroblasts

ataxia heterozygotes

detection, cumulative labeling index,

binding and internalization protease inhibitors, Bowman-Birk

type, 1602 Chinese hamster ovary HA-1 effect of hyperthermia, calcium flux,

3712 C3H 10T1/2

cocultures, human pituitary adenomas, 5678

fatty acid modification,

benzo(a)pyrene metabolism, 2385 cyclic AMP-dependent protein kinases

defects, initiated clones, 953 diploid

anchorage independence, carcinogenic metal salts, 3815

expression, transfected H-ras oncogene, 5752

slow DNA rejoining, trypsin and insulin. 4378

DNA cleavage

cell proliferation, chromatin conformation, 251

embryo

TGF- β induced mitogenesis, N,N-dimethylformamide and retinoic acid,

embryonal carcinoma cells

inherent sensitivity, cis-diamminedichloroplatinum(II) DNA adducts, 6810

epidermal keratinocytes

cytotoxicity, sunlight, 1825

flow cytometry

scrape-loading/dye transfer, intercellular communication, 6046

H-ras-transformed 10T1/2

natural killer cell regulation, implantation and early lung growth, 4801

Kirsten murine sarcoma virus modification of steroidogenesis, adrenocortical cells, 1325

proliferative rate

sensitivity to melphalan, 1273 skin

Li-Fraumeni familial cancer syndrome, 4229

suppression of tropomyosin synthesis transforming growth factor-a, 4493 transformation of host cells

primary transfection, 5194 transformed C3H 10T1/2 cells

c-myc oncogene, 3643 Fibromatosis

proliferative

avian skeletal muscle, leukosis viruses, 2083

Fibronectin

attachment of Bacillus Calmette-Guérin therapy, bladder tumors, 1762

embryonal carcinoma cell migration nerve growth factor stimulation, 6324 enhancement of cell growth

liver epithelial cells, 3802

heterogeneity morphologically distinct clones, tumor cells, 6086

receptor

relationship, tumor cell-cell interaction, 5127

Fibrosarcoma

autoradiographic imaging

2-deoxyglucose, different anatomical sites, 4706

effects of recombinant IL-2

sustained release vehicle, pluronic gel, 37

enhanced immunogenicity

cultivation, fetal calf serum, 1815

immunogenic variants

mutagenesis, antigen-specific crossprotection, 4413

Kirsten-ras oncogene expression MHC class I antigens, 2553

nuclear magnetic resonance phospholipid metabolites, 6481

T-cell recruitment thymus, phenotype change, 2136

transformation of host cells

primary transfection, tumor cells, 5194

transplantable

intravenous a-difluoromethylornithine, polyamine levels, 1836

tumor hypoxia

photodynamic treatment, 3110

Flavone acetic acid

phase I and pharmacokinetic study, 6776

Flavonoids inhibition

epidermal monooxygenases, 760

Flow cytometry

survival study, prostate biopsy specimens, 1973

DNA content

relationship to survival, prostate cancer, 2504

DNA damage analysis

cytotoxicity evaluation, alkylating agents, 5537 DNA index and S-phase fraction

prognosis, nodes positive early breast cancer, 4729 modeling system evaluation

S-phase estimation, breast cancer, 5294

uterine sarcomas and cell lines, 2814

Fluorescence hematoporphyrin derivative main fractions, biological studies,

anthracycline antibiotics, 1036

5-Fluoro-2'-deoxycytidine

tumor-selective activation tetrahydrouridine, mammary adeno-

carcinoma, 2344 tumor-selective metabolism

versus 5-fluorouracil, Lewis lung carcinoma, 2354

5-Fluoropyrimidines

colon adenocarcinoma xenografts thymidine salvage, 2117

5-Fluorouracil

clinical pharmacokinetics plasma, urine and bile, 2203

elimination dose and flow dependence, liver, 5261

induced DNA fragmentation T-lymphoma cells, 979

modulation of cytotoxicity intracellular folate concentration, KB cells, 6444

role of thymidine

biochemical modulation, 3911 tetrazolium-based colorimetric assay chemosensitivity testing, colorectal carcinoma, 5875 therapeutic efficiency L-histidinol, murine breast tumors, 16 versus 5-fluoro-2'-deoxycytidine tumor-selective metabolism, Lewis lung carcinoma, 2354

Fluosol-DA carbogen and

melphalan antitumor activity, mechanism. 513 radiosensitivity of tumors, increase in

pO₂, 442 enhancement

melphalan antitumor activity, various oxygenation conditions, 5036

Folate intracellular

modulation of 5-fluorouracil cytotoxicity, KB cells, 6444

Folate analogue enhanced transport

methotrexate therapy, L1210 cells, 5334

Forestomach

carcinogenesis

N,N-dibutylnitrosamine, antioxidants,

Forestomach neoplasms

β-propiolactone-induced mutagenesis inhibition, sodium thiosulfate, 4351 regression of simple hyperplasia butylated hydroxyanisole, 5171

N-Formyl-Met-Leu-Phe chemoluminescence

oxygen radical generation, Walker carcinosarcoma cells, 4771

Free radicals

chemotherapeutic agents adjunctive use of ethiofos, 5411 role

Adriamycin-resistant small cell lung cancer, 4613

Friend erythroleukemia

α-difluoromethylornithine inhibition,

hexamethylene bisacetamide-treated inhibition by bryostatin 1, blockage of differentiation, 6006

Friend erythroleukemia cells

avarol-induced DNA strand breakage,

differentiation

depletion from culture, sodium butyrate, 378

nuclear magnetic resonance phospholipid metabolites, 6481

Friend virus complex

lactoferrin

protective influence, 4184

Fructose-1,6-bisphosphate prevention

doxorubicin cardiotoxicity, 6511

Fructose 2,6-bisphosphate

control of phosphofructokinase B-cells, B-chronic lymphocytic leukemia cells, 1859

phosphofructokinase phosphorylation subunit composition, human gliomas, 5047

Fucolipid antigens

circulating immune complexes

adenocarcinoma, 5566

Fucosylglycoprotein metastatic potential

adenocarcinoma, distal colon and rectum, 881

Fucosyltransferase

electrofocusing pattern human leukemic cells, 2782

Galactose

glucose and

effect on microcirculatory flow, normal and neoplastic tissues, 371

α-Galactosyl

human antibody to F9 embryoglycan germ cell tumors, 2288

Galactosyltransferase

cell-associated and soluble isoenzymes bladder transitional cell carcinoma, 2311

Gallbladder

carcinoma-associated antigen monoclonal antibody, 4667

Gallium-67

uptake by leukemic cells transferrin mechanisms, 3929

hepatitis intervention study, 5782

Ganglioneuroma morphological differentiation polyprenoic acid, neuroblastoma cells,

neuronal phenotype

coordinate changes, surface antigen expression, 1383

Gangliosides

composition experimental mouse brain tumor, 3538 G_{D2} and G_{D3}

MoAb-defined correlations, melanoma, 1229

 G_{D3}

expression, childhood T-cell lymphoblastic malignancies, 1724 glycolipid expression

melanoma cell differentiation, MoAb Leo Mel 3, 225

human melanoma

expression, in vitro and in vivo, 1278

influence on neoplastic growth human and murine cells, 4243

lectin-resistant mutants glycosphingolipids, 150

Gastric neoplasms

gastric adenocarcinoma or benign lesion differential expression, carcinoembryonic antigen, 3565

incompatible blood group antigens characterization, glycolipids, 1968

Gastrin-releasing peptide bombesin and

selective stimulation, small cell lung

cancer, 821
Gastrointestinal neoplasms cell surface antigen

human sera, 3873 secretory epithelial cell marker monoclonal antibody, 2092

degrading activities plasma membranes, human cancer cells, 1608

Gelonin

compared to other A chain conjugates melanoma-associated antigen, 3169

Gene amplification

cancer at the cellular level, 3337

characteristics colorectal carcinoma cell lines, 6710

drug resistance

metastasis, B16 melanoma cell lines, 2604

multidrug-resistant cells

Chinese hamster ovary cells, 2875

tumorigenic phenotype, embryo cell line, 4663

Genes

adenovirus E1A and E1B

induction, phorbol ester tumor promoters, 803

adenovirus type 2 E1A

type IV collagenolytic protease, meta-static potential, 1523

her-ahl fusion

effect of α-interferon, chronic myelogenous leukemia, 6629

bypassing of defects

cell differentiation, malignancy suppression, 1981

denV

ultraviolet repair in XP cells, bacteriophage T4, 2967

epidermal growth factor receptor head and neck cancer, 3603

glucose-regulated

increased expression, transformed C3H 10T1/2 cells, 6220

H-2-linked immune response phosphoproteins, cell proliferation,

malignant glioma line U-343 MGa progressional changes, platelet-derived growth factor, 4943

modulation of expression

terminal differentiation, induction of transformed cells, 659

multidrug-resistant transfer and cloning, 2620

prolactin-inducible protein breast cancer, steroid receptor status, 4160

proteoglycans

isolation and characterization, human nonepithelial cells, 160

pX gene products

immunoelectron microscopy, HTLV-I, 2077

transferrin receptor

establishment of cell line, common acute lymphoblastic leukemia, 1652 transforming

detection, reticulum cell sarcoma, 523 tumor cytotoxicity

polymorphonuclear leukocytes, beige mice, 4842

tumor suppressor tumor cell instability, progression,

1473 Genetics

cancer predisposition, 5518

inheritance

cutaneous malignant melanoma, Sinclair swine, 5542

multidrug resistance, 5982

strategies for controlling cancer, 6814 Genital tract

steroid receptor levels diethylstilbestrol, 4165

Germ cell neoplasms human antibody to F9 embryoglycan, 2288

Gestation

risk factors for Wilms' tumor, 2972 Glands, Bowman's: see Bowman's glands Glia

cellular resistance

cis-diamminedichloroplatinum(II), nitrogen mustard, 1361

Glial cells

neuroblastoma cell variants collagen biosynthesis, 6505

Glial fragments detection of

> mycophenolic acid, astrocytoma cultures, 4900

Glioma

anaplastic

radiation plus diaziquone, sister chromatid exchange, 631

DNA cross-linking

chloroethylnitrosoureas, cisplatin and diaziquone, 3988

influence of glucose and buffer capacity culture medium, spheroids, 3504 inhibition of growth

induction of differentiation, leptomeningeal extracellular matrix proteins, 3515

intracranial xenografts

monoclonal antibody delivery, 1941 malignant line U-343 MGa

progressional changes, platelet-derived

growth factor, 4953 phosphorylation of phosphofructokinase

phosphorylation of phosphofructokinase subunit composition, regulatory properties, 5047

xenografts

monoclonal antibody, epidermal growth factor receptor, 3847

Glioma-associated antigen regional localization

monocional antibody, 4432

Glioma cells

growth and morphological characteristics

nerve growth factor, glia maturation factor, 4109

Globin

modulation of gene expression terminal differentiation, induction of transformed cells, 659

8-Globin

α-difluoromethylornithine inhibition Friend erythroleukemia cells, 2638

Globulin

long-term adjuvant therapy tamoxifen, 4517

β-1,3-Glucan

tumor cytotoxicity

polymorphonuclear leukocytes, beige mice, 4842

Glucocorticoid

altered binding

epidermal growth factor, HBL100 cells, 5888

effect on melphalan cytotoxicity cell-cycle position, melanoma cell lines, 4814

growth-stimulating effect androgen-responsive Shionogi carcinoma 115, 4329

inhibitory and stimulatory effects androgen-induced growth, Shionogi carcinoma, 6560

modulation of plasminogen activators mammary carcinoma cell line, 364 sensitivity

ovarian carcinoma cells, 6040

D-Glucosamine

imbalance in nucleotide pools myeloid leukemia cells, HL-60 cells, 1841

Glucose

buffer capacity and spheroids, thyroid carcinoma and glioma, 3504

galactose and

effect on microcirculatory flow, normal and neoplastic tissues, 371

in vivo nutrient uptake head and neck cancer, 5230

-related gene encoding M_r 78,000 increased expression, C3H 10T½ embryo cells, 6220

D-Glucose

respiratory and secretory response insulin-producing tumor cells, 2-aminobicyclo[2,2,1]heptane-2-carboxylic acid, 5905

Glucose-6-phosphate dehydrogenase effects of 17β-estradiol and R5020 MCF-7 cells, 5116

hexose monophosphate shunt oxidant stress, Adriamycin resistance in tumor cells, 5994

β-Glucuronidase

mammary tumors ovariectomy-induced regression, 3980

Glutamic acid pyrolysis products

accumulation in plasma, uremia, 6150 γ-Glutamyltransferase

expression in bone marrow cells mammary carcinoma elaborated factor, 6262

 γ -Glutamyltranspeptidase

hepatic foci irreversibility, 2328 histochemistry

effects of rat strain, diet composition and phenobarbital, 1130

Glutathione

brain tumor cell resistance 1,3-bis(2-chloroethyl)-1-nitrosourea, nitrogen mustard, 2525

chemosensitization of L-phenylalanine mustard

buthionine sulfoximine, 1593 content changes in 9L cells

α-difluoromethylornithine treatment, 5270

depletion

antitumor disulfide cytotoxicity, murine cells, 4391

impaired biosynthesis human ataxia-teland

human ataxia-telangiectasia cells, 4576

multiple mechanisms of resistance cis-diamminedichloroplatinum(II), L1210 cells, 2056

selenium and vitamin E combined treatments, skin carcinogenesis, 477

Glutathione peroxidase

role of fatty acyl coenzyme A oxidase efflux of oxidized glutathione, nafenopin-treated liver, 4795

Glutathione S-transferase

class π messenger RNA structure and expression, 5626 drug-induced DNA cross-linking nitrogen mustard-resistant CHO cells, 6022

effects of retinoids

benzo(a)pyrene binding, tissue DNA, 5014

immunohistochemical detection placental form, uterine cervix lesions, 6806

Glyceraldehyde-3-phosphate dehydrogenase enhanced gene expression lung cancers, 5616

Glycerol

nature of N-nitrosodimethylamine demethylase inhibitors, 3378

Glycolipids

expression

melanoma cell differentiation, MoAb Leo Mel 3, 225

gastric cancer

incompatible blood group antigens, 1968

N-Glycolylneuraminic acid ganglioside composition

experimental mouse brain tumor, 3538

Glycolysis reduction in

reduction in tumor growth rhodamine and hypoglycemia, Walker 256 carcinoma, 3684

Glycoproteins

antigen characterization small cell lung carcinoma, 3766

class I MHC expression

immunogenicity, mammary carcinoma, 4915

growth inhibition of melanoma cells antibodies, retinoic acid action, 3152 inhibition of synthesis

HL-60 cells, 6-methylmercaptopurine ribonucleoside, 6283

Mr 34,000

tissue distribution, epithelial antigen, 2883

M, 39,000

estrogen inhibition, breast cancer cells, 1234

M_r 170,000 to 180,000

phosphorylation, multidrug-resistant tumor cells, 2860

P-: see P-glycoprotein Rana catesbeiana lectin

tumor cell agglutination, 4877

colorectal cancer metastases, 2741

tumor-associated

47D10, distribution and characterization, 241

tumor-associated carbohydrate epitopes squamous lung cancer, 6697 variation

lung cancer cells, monoclonal antibody

43-9F, 1161 viral macrophage cytostasis, large cell lym-

phoma, 2558 Glycosaminoglycans proteoglycans

isolation and characterization, human nonepithelial tumors, 160 synthesis by colonic cancer cells, 4478 Glycosidases mediated degradation of matrix ovarian carcinoma, 4634 Glycosides plant cell surface modulation, B16 melanoma cells, 3863 Glycosphingolipids composition premalignant alterations, colonic epithelial cells, 1031 lectin-resistant mutants MDAY-D2 cell line, 150 presence of fucolipid antigens circulating immune complexes, adenocarcinoma, 5566 Glycosyltransferase effect of retinoic acid phorbol-12-myristate-13-acetate, normal and transformed cells, 787 follicular epithelium of thyroid naturally occurring clones, proliferation potential, 1646 Gompertzian prospective computerized simulation breast cancer, 4982 Gonadotropin chorionic asparagine-linked sugar chains, invasive mole and choriocarcinoma. 5242 Gonadotropin-releasing hormone analogue cyclophosphamide-induced testicular cytotoxicity absence of protection, 1093 ethylamide effects of ionizing radiation, ovarian follicle development, 5005 Granulocytes acute nonlymphoblastic leukemia probability of development, refractory anemia, 2196 differentiation retinoic acid-induced, transplantable HL60 tumor, 1434 sialyltransferase chronic myelogenous leukemia, 2763 thermal radiosensitization radiation response, bone marrow progenitors, 1538 tumor-derived factors neutrophilia, hypercalcemia-inducing mammary cancer, 4059 Growth factor application of molecular biology meeting report, 3032 cancer at the cellular level, 3337 effects on antiproliferative activity tumor necrosis factor, 780 importance of extended growth potential neoplastic potential, mammary carcinoma cells, 5316 lung epithelial cell detection, cultured primary solid lung

tumors, 2903

mesenchymal cells

mammary epithelial cells

growth and continuous passage,

serum-free medium, 3776

human mammary carcinoma cell lines, 3425 non-colony-stimulating TPA-resistant mutants, macrophage cell line, 2777 platelet-derived progressional changes, malignant glioma, 4953 production human myeloma cells, 4856 transferrin bladder carcinoma cells, 4560 transforming growth factor-β receptors differentiation, embryonal cells, 4386 use of lymph in cell culture simulation of constraints, tumor growth, 4924 Growth hormone effects of γ -interferon endocrine system, 6397 prolactin and pituitary tissues, hyperplastic and neoplastic, 1087 activated c-Ha-ras oncogene thymine transversion, stomach cancer, 3195 adenine starvation and DNA synthesis, nucleotide precursors, 4047 Guanine analogues use of tiazofurin enhanced metabolism and cytotoxicity, 1022 Guanine nucleotide-binding protein production of α subunit neuroendocrine tumors, 5800 Hair-coloring products Haptoglobin fetal 5120 HBL100 cells altered glucocorticoid binding H-2 complex immune response gene 193 Heart acodazole phase I trial, 3895

risk factor for Wilms' tumor, 2972 potent immunosuppressant, cancer, epidermal growth factor, 5888 phosphoproteins, cell proliferation,

Adriamycin entrapped in liposomes targeting therapy, 4471 pharmacokinetics of 4'-deoxy-4'-iododoxorubicin plasma and tissues, compared to doxorubicin, 5401 Heat thermal radiosensitization

genitors, 1538 Heat shock protein synthesis embryo cell survival sensitization

radiation response, bone marrow prohyperthermia, antioxidant enzymes, α-difluoromethylornithine, Chinese hamster ovary cells, 816 stress-induced thermotolerance cytoskeleton, neuroblastoma and hepa-6912

toma cells, 1674 thermotolerance cycloheximide or puromycin, Chinese hamster ovary cells, 5960 cysteamine-induced oxidative stress. Chinese hamster ovary cells, 2268 other cellular processes, 5249 tumor-associated antigen L1210 cells, 1006 Hematopoiesis tumor-induced suppressor bone marrow cells, Lewis lung carcinoma cells, 100 Hematopoietic cells antigen expression small cell carcinoma, lung, 6556 differentiation antigen K562 cells, 4254 human progenitor cells tumor necrosis factor effect, chronic myeloid leukemia, 4788 survival and growth factor monoclonal antibody, myeloid leukemia cell line, 5025 Hematoporphyrin derivative ether bonds nature of tumor-localizing components, 3439 main fractions biological studies, 1027 photodynamic therapy pharmacological modulation, light, structure and stability, 4642 Hematotoxicity ifosfamide potentiation, cis-diamminedichloroplatinum(II), 1457 Hemodialysis venous intraarterial cis-diamminedichloropla-

tinum(II), 1962 Hemoglobin adducts 4-aminobiphenyl, smokers and non-

smokers, 602 c-myc expression and differentiation antineoplastic drugs, 4544 gene activation, 5,6-dihydro-5-azacyti-

dine for bronchogenic carcinoma, 4199 formation of adducts tobacco-specific nitrosamines, 2626

Hemopoiesis progenitor cell growth modulation β-interferon, 6576

Hemopoietic factors survival of colony forming cells 4-hydroperoxycyclophosphamide treatment, bone marrow cells, 6371

antitumor chemotherapy efficacy, cortisone acetate, 5021 binding affinity prostatic growth factor, Dunning tumor, 188

Hepatic stimulatory substance extraction and partial purification, 5600 Hepatitis chronic non-A/non-B

hepatocellular carcinoma, incidence in Japan, 4967

intervention study Gambia, 5782 Hepatitis B virus cigarette smoking alcohol consumption, hepatocellular carcinoma, 654 exposure to aflatoxin B₁ liver cancer, Kenya, 3430 Hepatitis virus infection liver metabolism mutagens and carcinogens, 4052 Hepatoblastoma mutagenicity of 1-nitropyrene DNA synthesis, metabolism, 3163 Hepatocarcinogenesis aflatoxin B. ethoxyquin protective effect, metabolic basis, 5218 alkenylbenzene derivatives structure-activity studies, 2275 cell cycle-dependent initiation BPDE, 3771 methyl(acetoxymethyl)nitrosamine, 1263 coordinate polypeptide expression comparison, Solt-Farber and Reddy models, 2839 establishment of cell line chicken hepatocellular carcinoma, 4460 liver nuclei choline-devoid diet, 6731 nitrosamine-induced cytochrome P-450 altered lesions, 2911 patterns of ligand binding, 3954 progression transplant behavior, 4699 Hepatocytes **DNA** synthesis 12-O-tetradecanoylphorbol-13-acetate, phenobarbital, 5665 early stage of neoplastic transformation hybridization studies, albumin and αfetoprotein, 5469 endogenous retrovirus-related sequences factors influencing expression, 795 foci -glutamyl transpeptidase histochemistry, 1130 human and rat metabolism, 2-acetylaminofluorene, hyperplastic and malignant ated polypeptide, 210 hypoxic nitrosourea, 5087 metabolism to mutagens pyl)amine, 4776 normal/preneoplastic/neoplastic ing growth factor-β, 6595

cell cycle deregulation, mitosis-associcytotoxicity, N,N-bis(2-chloroethyl)-N-N-nitrosobis(2-oxopropyl)amine, N-nitroso(2-hydroxypropyl)(2-oxoproinhibition of proliferation, transformpleiotropic drug resistance carcinogen-induced, 5577 transplanted nucleolar segregation, 1657 Hepatoms analysis of c-myc expression, 3414 antibody-drug conjugate

SUBJECT INDEX TO VOLUME 47 postoperative effect, 4293 daunorubicin efficacy cyclosporin A enhancement, 6216 effect of ischemia nucleosides and bases, 3092 glutathione-S-transferase class # messenger RNA, 5626 host liver glucocorticoid receptor, 3742 mutagenicity of 1-nitropyrene DNA synthesis, metabolism, 3163 Novikoff DNA-protein cross-links, cis- and trans-diamminedichloroplatinum(II), 201 Hepatoma cells ascites macrophage potentiation, invasive capacity, 2167 stress-induced thermotolerance cytoskeleton, 1674 synergistic growth inhibition N¹⁰-propargyl-5,8-dideazafolate, methotrexate, 5256 (2R,5R)-6-Heptyne-2,5-diamine polyamine depletion topoisomerase II DNA cleavage, leukemia cells, 6437 Herpes simplex virus suppression macrophage tumoricidal activity, 1534 Hexachlorocyclohexane dose-response studies, liver, 80 Hexamethylbisacetamide sodium butyrate depletion from culture Friend erythroleukemia cells, differentiation, 378 Hexamethylene bisacetamide metabolites of plasma pharmacokinetics, urinary excretion, 6142 phase I study 5-day continuous infusion, 617 prolonged infusion phase I study, 5788 treated Friend erythroleukemia cells inhibition by bryostatin 1, blockage of differentiation, 6006 Hexamethylmelamine pharmacokinetics Intralipid, hepatic regional administration, 5070 Hexosaminidase degradation of extracellular matrix ovarian carcinoma, 4634 Hexose monophosphate oxidant stress, Adriamycin resistance in tumor cells, 5994 Histamine

colorectal tumor epithelium CD8-positive T-cells, mononuclear phagocytes, 2919 HL-60 leukemia cells Adriamycin resistance modification, surface membrane protein, 5080 comparative cytotoxicity drug combinations, normal hematopoietic precursors, 119 control of differentiation after precommitment, 129 cytochemistry ultrastructural morphometry, 4932 differentiation by solvents, 140 differentiation resistant subclone c-myc altered regulation, 4595 HL-60-1E3 novel phorbol diester-resistant cell line, 1319 imbalance nucleotide pools, 1841 induction of differentiation tumor necrosis factor, 1a,25-dihvdroxyvitamin D₃, 2236 inhibition of glycoprotein synthesis 6-methylmercaptopurine ribonucleoside, 6283 interaction with marrow stromal cells, monocytic differentiation retinoic acid-induced, 1434 nucleolar antigen p145 expression, 586 platelet aggregating activity thrombin generation, NCG neuroblastoma cell line, 2129 TPA-induced translocation protein kinase C, 2892 uptake of gallium-67 transferrin mechanisms, 3929 Hodgkin's cells lectin relation, hepatic asialoglycoprotein receptor, 2461 Hodgkin's disease chemotherapy of lymphomas, 5810 Hormones adjuvant chemotherapy tamoxifen, breast cancer, 624 effects of γ -interferon endocrine system, 6397 mammary epithelial cells growth and continuous passage, serum-free medium, 3776 modulation of plasminogen activator prediction, breast tumor responsiveness, 3558 sex response of squamous cell line, esophageal carcinoma, 4134 differential effects, parameters of cell growth, 2937 Horseradish peroxidase catalyzed metabolism of etoposide

binding of intermediates, cellular mac-

romolecules, 5835

H-ras: see Oncogenes

reduced levels

HLA-D/DR

methylated DNA, hepatocellular carci-

noma chromatin, 5407

therapeutic efficiency of 5-fluorouracil

antiestrogen binding site ligands, cal-

cium channels, 4025

murine breast tumors, 16

normal and neoplastic colonic

mutagenicity experiments

agroclavines, 1811

c-myb expression

mucosa, 5266

growth and

L-Histidinol

adult T-cell leukemia-like disease clonal integration, Simian T-cell leukemia virus type I, 269 immunoelectron microscopy

pX gene products, 2077 Sapporo Cancer Seminar, 918 transformation

quantitative assay, 2468

Hybridomas

metastatic ability acquisition platelet-aggregating ability, 4396 MoAb to cytochrome P-450 metabolism, aniline and nitrosamines, 3101

Hybridoma, T-cell

inhibition of lymphoma invasion liver metastasis formation, pertussis toxin, 5439

invasion and metastasis location of genes, chromosome 7, 6666

Hydrocarbons, aromatic

induction of contact hypersensitivity dimethylbenz(a)anthracene, benzo(a)pyrene, 6074

polycyclic

binding to nuclear macromolecules, mammary epithelial cells, 2609 DNA adducts, fish from polluted areas, 6543

inhibited DNA adduct formation, plant phenols, 767

inhibition of epidermal monooxygenases, plant phenols, 760

tumorigenicity in newborn mice bay region methyl group, 5310 Hydrocortisone

adjuvant aminoglutethimide therapy

primary breast cancer, postmenopausal patients, 2494 aminogluethimide and

adrenal steroid levels, prostatic carcinoma, 4736 Hydrogen peroxide

ferric nitrilotriacetate and

hydroxyl radical production, DNA damage, 6522

stimulation of respiratory burst peritoneal neutrophils, tumor cell conjugation, 2211

4-Hydroperoxycyclophosphamide aldehyde dehydrogenase inhibitors sensitivity to oxazaphosphorines, progenitor cells, 3180

bone marrow cell treatment survival, colony forming cells, 6371 intrathecal administration, 5932

phosphoramide mustard and DNA cross-linking and single strand breaks, embryos, 5421

N-Hydroxy-2-aminofluorene N-glucuronosyl or N-acetyl derivatives

induction, urothelial tumors, 3406 4-Hydroxyandrostenedione

postmenopausal breast cancer, 1957

β-Hydroxybutyrate
in vivo nutrient uptake head and neck cancer, 5230

25-Hydroxycholesterol mevalonic acid products cell cycle, SV-3T3 cells, 4825 4-Hydroxycyclophosphamide

accelerated decomposition human serum albumin, 1505 plasma pharmacokinetics cyclophosphamide, intravenous versus oral administration, 2723

6-Hydroxydopamine

adjunctive use of ethiofos free radical generation, chemotherapeutic agents, 5411 effects of sympathectomy

neuroblastoma tumor growth, catecholamine content, 5629

N-(2-Hydroxyethyl)-2-nitro-1H-imidazole-1-acetamide

pharmacokinetics neurotoxicity, 319

3-Hydroxy-3-methylglutaryl mevalonic acid products

cell cycle, SV-3T3 cells, 4825 5-Hydroxymethyluracil Chinese hamster cell DNA

3-aminobenzamide toxicity, 4372 N-Hydroxy-N'-aminoguanidine derivatives effects on ribonucleotide reductase activ-

inhibitory effects, 975 9-Hydroxy-2-N-methylellipticine

human tumor clonogenic cell assay pharmacokinetics, drug exposure, 3718

N-(4-Hydroxyphenyl)-retinamide effects on metabolizing enzymes benzo(a)pyrene binding, tissue DNA, 5014

Hydroxyproline **BL6** melanoma

increased metastasis, desmoplasia, 1663

Hydroxyurea

induced cell death cell cycle relationship, T-lymphoma cells, 6490

selection of metastatic variants mechanisms, tumor progression, 2690 treated tumor cells

DNA lesions, progressive formation, 2755

1α,25-Hydroxyvitamin D₃ systemic inhibition

tumor promoter-induced ornithine decarboxylase, 5031

Hypercalcemia

adenylate cyclase stimulation adenocarcinoma, 690

effect of single injection bisphosphonates, Walker carcinosarcoma 256, 6193

neutrophilia

mammary carcinoma, tumor-derived factors, 4059

production of interleukin 1α-like factor colony-stimulating factor, squamous cell carcinoma, 6474

Hypercalciuria

effect of single injection bisphosphonates, Walker carcinosarcoma 256, 6193

Hyperglycemia microcirculatory flow effect of glucose and galactose, 371

Hyperplasia benign nodular

prostate, concentrations of calcium/ zinc/magnesium, 323

degree of epidermal xanthine oxidase activity, 6388

epidermal

altered keratin biosynthesis, 12-O-tetradecanoylphorbol-13-acetate, 4674

mitogen-induced, growth of enzymealtered islands, 5557

persistent

inheritance of susceptibility, mouse hybrids, 6294

simple

regression of, butylated hydroxyanisole, 5171

Hypersensitivity

contact

dimethylbenz(a)anthracene, benzo(a)pyrene, 6074

Hyperthermia

antioxidant enzymes

embryo cell survival, 3473 cisplatin and diethyldithiocarbamate combined effects, 774

differences in thermotolerance in vivo and in vitro, mammary carcinoma cells, 2571

drug sequencing

mitomycin C, cisplatin, 493

effect on calcium flux

Chinese hamster ovary HA-1 fibroblasts, 3712

enhancement of cytotoxicity cis-diammine-1,1-cyclobutane dicar-

boxylate platinum(II), 4335 heat shock proteins thermotolerance, other cellular proc-

esses, 5249 induced prostaglandin production

peritoneal exudate macrophages, 11 membrane lipid modification tumors, 4529

metabolic inhibitors and

induced chromosome damage, Chinese hamster ovary cells, 3584

mitomycin C resistance ovary cells, 1308 radiotherapy and

mammary tumor response, NMR spectroscopy, 6467

thermal radiosensitization radiation response, bone marrow progenitors, 1538

thermotolerance

cysteamine-induced oxidative stress, Chinese hamster ovary cells, 2268 whole body

use of insulation, extremity temperature nonuniformity, 5880

Hypertriglyceridemia suppression

Ehrlich carcinoma, ascofuranone, 96 Hypoalbuminemia

phase I study

trimetrexate, 3303

Hypoglycemia rhodamine and

reduction of growth rate, Walker 256 carcinoma, 3684

Hypoxanthine guanine phosphoribosyltransferase

antitumor activity

mechanism of action, 6-thio-3-deazaguanine, 1863

Hypoxanthine phosphoribosyltransferase recombinant DNA probes

clonal analysis, chromosome X, 4806

Hypoxia

anticancer drug-induced cytotoxicity Ehrlich ascites cells, 2407 EMT6 cells

drug uptake and toxicity, porfiromycin, 5654

hepatocytes

cytotoxicity, N, N-bis(2-chloroethyl)-Nnitrosourea, 5087

intermittent blood flow

radiobiological effects, murine tumor,

melphalan antitumor activity enhancement, fluosol-DA, 5036

misonidazole binding rodent and human tumors, 5367 photodynamic treatment

experimental tumor, 3110

Hypoxic cells

antitumor disulfide cytotoxicity glutathione depletion, murine cells, 4391

1

Idarubicin: see 4-Demethoxydaunorubicin Ifosfamide

neurotoxicity potentiation, cis-diamminedichloroplatinum(II), 1457

Illudins

preclinical evaluation anticancer agents, 3186 Imidazoquinoline derivatives

acodazole

phase I trial, 3895 Immune complex disease

anti-mouse immunoglobulin reactivity polyclonal rheumatoid factors, 4520

Immune complexes presence of fucolipid antigens

adenocarcinoma, 5566

Immune response

antitumor immune reactivity tumor bearer thymocytes, melphalan, 4848

autoimmune nature of cancer, 927 B16 melanoma viral antigens syngeneic monoclonal antibodies,

effect of low dose cyclophosphamide, 3317

immunotoxicity, benzo(a)pyrene, 2317 multiple infusions of monoclonal anti-

body 17.1A gastrointestinal carcinoma, 5238

potent immunosuppressant fetal haptoglobin, cancer, 5120 progressive growth

immunogenic tumors, 4759 small and non-small cell lung cancer monoclonal antibodies, 5009

tumor development and thymic factor thymostimulin, tumorbearing mice, 3351

B-cell elimination bone marrow, primary monoclonal antibodies, 846

Immunochemotherapy combined

human solid tumors, nude mice, 579

Immunoconjugates

establishment of human tumor in athymic mice, 2899

Vinca derivative

squamous carcinoma-reactive MoAb, 3118

Immunocytochemistry

progesterone receptor

monoclonal antibodies, breast tumors, 2652

nogenicity

class I MHC expression mammary carcinoma, 4915

enhanced

fibrosarcoma KMT-17, cultivation in fetal calf serum, 1815

melanoma-associated antigens

monoclonal antibodies, allogenic and xenogenic hosts, 5284

xenogenization

tumor cells, gene transfer, 3136

noglobulin

antibody-directed targeting liposomes, binding and growth inhibition, 5954

anti-mouse reactivity

rheumatoid factors, 4520

genes and 18q21 major breakpoint region

clonal evolution, follicular lymphoma, 2537

glioma-associated antigen regional localization, 4432 Immunoglobulin A

anti-transferrin receptor antibodies in vivo growth, solid tumor cells, 2040 Immunoglobulin G

anti-transferrin receptor antibodies in vivo growth, solid tumor cells, 2040 immune response

small and non-small cell lung cancer,

protein A and

correlation, antitumor activity, 2002 recombinant interleukin 2 infusion dysfunction, blood-brain barrier, 5765

Immunoglobulin M

immune response

small and non-small cell lung cancer, 5009

Immunohistochemistry

detection of glutathione S-transferase placental form, uterine cervix lesions,

Immunolymphoscintigraphy dose dependence of indium-labeled T101 MoAb antibody

cutaneous T-cell lymphoma, 6093 pulmonary and mediastinal lymph nodes, 3572

Immunoperoxidase natural killer cells

host response to melanoma, 1411

Immunoseparation

chemoseparation and

clonogenic T lymphoma cells, bone marrow, 4608

Immunosuppression

antiproliferative effects of suramin lymphoid cells, 4694

ochratoxin A

natural killer cell activity, 2259 Immunotherapy

adoptive

ascorbate depletion, 4208

combination

cancer in a mouse model, TNF, 115 disialoganglioside GD2

target antigen, neuroblastoma cells, 1098

in vivo administration

purified interleukin 2, 2188

monoclonal antibodies

milk fat globule components, breast carcinoma, 532

recombinant interleukin-2

pulmonary microvascular permeability, albumin, 3528

solid and ascitic tumor model

human malignant mesothelioma cell line, 3199

spontaneous metastases

macrophage content, growth stages, 4141

T-cell differentiation

regression, syngeneic tumors, 1354 Immunotoxins

antitumor activity

nude mouse model, human ovarian cancer, 1407

combined immunochemotherapy human solid tumors, nude mice, 579 cvtotoxic

breast cancer cells, 730

indirect

monoclonal antibodies, small cell lung cancer, 5552

intraperitoneal

antitumor activity, malignant mesothelioma, 4266

melanoma-associated antigen

comparisons with A chain conjugates, 3169

murine transferrin receptor

intracavitary therapy, syngeneic perito-neal tumors, 6639

ricin A chain-monoclonal antibody conjugates

anti-Thy 1.1 antibody, chemical deglycosylation, 947

biodistribution, hepatic blocking agents, 5277

inhibition, growth of tumor xenografts, 5042

therapy for malignant melanoma, 1717, 1377

synthesis

coupling agents, hindered disulfide bond, 5924

radiolabeling

OC-125 antibody compared to 19-9 antibody, 6111

Indomethacin

sensitivity to inhibition

dihydrodiol dehydrogenase, tissue distribution, 680

Inositol trisphosphate

inhibited lipid metabolism Adriamycin, 2799

Insulin

impact on doxorubicin-induced host toxicity

tumor regression, 4318

protease inhibitors

Bowman-Birk type, binding and internalization, 1602

receptor regulation tumor cells, 6500

trypsin and

slow DNA rejoining, UV-irradiated fibroblasts, 4378

tumor cell production

D-glucose, respiratory and secretory response, 5905

Intercalating agents

new congener of elliptinium acetate physiochemical and pharmacological properties, 6254

topoisomerase II inhibitors cross-sensitivity, CHO cells, 1560

angiogenesis inhibition, 5155

distinction

direct-acting anticancer hormone, 914 induction

macrophage-mediated tumor cytotoxicity, 2804

recombinant

potentiation, radiation cytotoxicity, 4338

response of teratocarcinoma cells induction, MHC class I antigens, 740 selective immunosuppression

natural killer cell activity, ochratoxin A, 2259

α-Interferon

B/D hybrids

antiproliferative effects, tumor cell lines, 2020

dose and tumor differentiation

growth inhibition, osteosarcomas, 258 effect on bcr-abl fusion gene expression chronic myelogenous leukemia, 6629 inhibition

mammalian DNA polymerases, 5971 suppression

macrophage tumoricidal activity, herpes simplex virus, 1534

β-Interferon

modulation

hemopoietic progenitor cell growth, 6576

receptor binding

growth related variation, 4582 recombinant

phase I study, four-hour infusion, 1174

γ-Interferon

activation of Kupffer cells, 3880 clonal proliferation

lung cancer, 4081

cytotoxicity of polymorphonuclear leukocytes

streptococcal preparation, 6204 effect of recombinant tumor necrosis fac-

tor tumoricidal activation, macrophages, 5868

effects on endocrine system, 6397 evaluation of antitumor activity

human melanoma xenografts, 5347 fate of activated blood monocytes abdominal cavity transfer, peritoneal

carcinomatosis, 6100 indirect antitumor effect

ar ites-associated macrophages, 673 inhibition

mammalian DNA polymerases, 5971 suppression

macrophage tumoricidal activity, her-

pes simplex virus, 1534 tumor necrosis factor-a and

growth of transformed cells, 5382 synergistic antitumor effects, colonic

neoplasms, 2809 therapeutic potential, ovarian cancer,

therapeutic properties, 2563

Interferon-B-serine phase I/II trial

renal cell carcinoma, 2481

Interleukin 1

colony-stimulating factor production hypercalcemia, squamous cell carcinoma, 6474

constitutive production

monocytic leukemia cell line, 2589

growth and differentiation myeloid leukemic cell line, 2397

stimulation

anchorage-independent growth, tumor cells, 5612

Interleukin 2

absence of protein kinase C nuclei, EL-4 mouse thymoma cells, 3868

adoptive immunotherapy ascorbate depletion, 4208

enhancement of antibody-mediated cellular cytotoxicity

human melanoma, 6600

infusion

dysfunction, blood-brain barrier, 5765 intrapleural instillations

LAK cells, malignant pleurisy, 2184 in vivo administration

cancer patients, 2188

LAK cells

acute B-cell leukemia, 723 separation and functional studies, 4366

local and systemic effects mammary tumors, 4296

long-term growth and cytotoxic activity tumor-infiltrating lymphocytes, squamous cell carcinomas, 6353

phase I trial, 4202 recombinant

effects on fibrosarcoma, pluronic gel,

pulmonary microvascular permeability, albumin, 3528

therapeutic properties treatment of metastatic disease, 5725

tumor necrosis factor combination therapy, 3948

Intestines

chemoprevention of carcinogenesis dietary selenium, 5901

dietary aflatoxin M

comparison, aflatoxin B₁, 1913 epithelium

therapeutic selectivity, F-Ara-A, 700 fecal neutral steroids

patients with polyps or cancer, large bowel, 305

pharmacokinetics of hexamethylmelamine

hepatic regional administration, 5070 Iodine

interferon receptor binding growth related variation, 4582 m-[131]iodobenzylguanidine

stability and pharmacokinetics, 6147 radioiodine conjugated to monoclonal antibody

localization, ovarian carcinoma, 4719 m-Iodobenzylguanidine

sodium dependency of uptake pheochromocytoma cells, 3920 m-[131][Iodobenzylguanidine

stability and pharmacokinetics, 6147 4'-Iodo-4'-deoxydoxorubicin chemical and biological characterization, 4001

17-α-Iodovinyl 11-β-methoxyestradiol interaction with estrogen receptors v-ras transfection, breast cancer, 2945

antineuroblastoma activity of desferoxamine

human cell lines, 1749

anti-transferrin receptor antibodies in vivo growth, solid tumor cells, 2040 BCG-activated macrophages

tumoricidal effector mechanisms, 2014

Iron chelator

cell cycle synchronization L1210 cells, 6010

Irradiction

intermittent blood flow murine tumor, 597

previous

tolerance to cis-diamminedichloroplatinum(II), mouse kidneys, 1016

Ischemia

effect on nucleosides and bases liver and hepatoma 3924A, 3092 Isopropyl methanesulfonate

neoplastic effects induction of thymic lymphomas, squamous cell carcinomas, 3402

N-Isopropyl-α-(2-methylhydrazino)p-toluamide hydrochloride: see Procarbazine

Isotopes

evaluation

new screening assay, anticancer agents, 6418 iodine-125 or indium-111

monoclonal antibody B72.3, pharmacokinetics, 1149

J

Japan

hepatocellular carcinoma incidence, 4967

effect of bisbenzylisoquinoline alkaloids multidrug resistance, 2413 EGF-toxin conjugate-resistant cell lines,

2961 intracellular folate concentration modulation of 5-fluorouracil cytotoxic-

ity, 6444 KB16 cells

phorbol ester tumor promoters induction, adenovirus E1A and E1B genes, 803

K-562 cell line

c-myc expression and differentiation antineoplastic drugs, 4544 effects of microtubule inhibitors etoposide accumulation, DNA damage, 1010

hematopoietic-specific antigen, 4254 multidrug-resistant gene transfer and cloning, 2620 potentiation of cytotoxicity 1-β-D-arabinofuranosylcytosine, cadeguomycin, 713 reduction protein tyrosine phosphorylation, 4066

TPA-induced translocation protein kinase C, 2892

aflatoxin exposure hepatitis B virus, liver cancer, 3430 Keoxifene

tamoxifen and

antitumor actions, rat mammary carcinoma model, 4020

Keratinocytes epidermal

action spectra, cytotoxicity, 1825 8-methoxypsoralen-DNA photoadducts immunological detection, visualization, 2451

neoplastic transformation G₂ chromatid radiosensitivity, 1390 transforming growth factor epidermal growth factor, differentiation, 6705

Keratins

altered biosynthesis in epidermis 12-O-tetradecanoylphorbol-13-acetate, 4674

characterization cervical epithelial cells, 6678 Ewing sarcoma

intermediate filaments, characterization 1170

Ketone bodies

in vivo nutrient uptake head and neck cancer, 5230 3-Ketosteroids

origin of colon cancer, 4237 KG-1 cells

protein kinase C activators protein phosphorylation, 1302

calcitonin renal binding sites early spontaneous deficiency, calcitonin-secreting tumors, 3595

carcinogenesis estrogen-induced DNA adducts, cytochrome P-450, 2156

cis-diamminedichloroplatinum(II) DNA adduct formation, rat tissues, 718

colonic carcinogenesis chemoprevention, dietary selenium, 5901

detoxification metallothionein, cis-diamminedichloroplatinum(II), 983 epithelial cells

contact insensitivity, carcinoma cell line, 1634

glutamic acid pyrolysis products accumulation in plasma, uremia, 6150 immunocytochemical detection of interaction products

cis-diamminedichloroplatinum(II), cisdiammine(1,1-cyclobutanedicarboxylato)platinum(II), 6719

pharmacokinetics cis-diammine(1,1-cyclobutanedicarbox-

ylato)platinum, 3606 previous irradiation tolerance, cis-diamminedichloroplatinum(II), 1016

regulation N-nitrosodimethylamine demethylase,

stimulation of adenylate cyclase adenocarcinoma, 690

Kidney cells

Simian sarcoma virus-transformed cells production, transforming growth factors, 1582

Kidney neoplasms nitrosodialkylamines and azoxyalkanes carcinogenesis, 3968

pp60arc

effect of phorbol ester, Rous sarcoma virus, 3637

Kryptocyanine dye mitochondrial photosensitization, 6580 Kunffer cells

activation γ-interferon, 3880

L

α-Lactalbumin differentiation-specific proteins preneoplastic mammary tissues, 4686

in vivo nutrient uptake head and neck cancer, 5230

Lactate dehydrogenase expression of unusual isozyme serum, comparison to carcinoembryonic antigen, 6156

Lactoferrin protective influence Friend virus complex, 4184

prolactin as growth initiator Nb2 node lymphoma cells, butyrate, 1751

LAK cells adoptive immunotherapy ascorbate depletion, 4208

antibody-mediated cellular cytotoxicity interleukin 2 enhancement, human melanoma, 6600

culture conditions

maximal cytotoxicity, cells from normal donors, 5504

generation therapy, acute B-cell leukemia, 723 induction by intrapleural instillations

recombinant IL-2, malignant pleurisy, separation and functional studies, 4366

Laminin enhancement of cell growth

liver epithelial cells, 3802 fibronectin receptor

relationship, tumor cell-cell interaction, 5127 receptor

role in tumor cell migration, 5691 B-Lapachone

potentiation halogenated pyrimidine radiosensitizers, carcinoma cells, 5361

multiple myeloma case-control study of whites, 2978

Laxatives

9L cells

glutathione content changes α-difluoromethylornithine treatment, 5270

resistance to 1,3-bis(2-chloroethyl)-1-nitrosourea

nitrogen mustard, glutathione, 2525 L929 cells

enhanced hyperthermic cytotoxicity oxidizing dyes, 2-cyanocinnamic acid, 3341

L1210 cells

cell cycle synchronization microbial iron chelator, 6010 cis-diamminedichloroplatinum(II)-resistant and -sensitive changes in calcium channel activity,

membranes, 519 comparison

bis(ethyl)polyamine derivatives, 2821 continuous exposure 6-thioguanine, 3083

2,6-diaminopurinedeoxyriboside prodrug of deoxyguanosine, 2218 enhancement of folate analogue trans-

methotrexate therapy, leukemia, 5334 inhibition of DNA topoisomerase I intracellular effects, camptothecin, 1793

inhibitory effects N-hydroxy-N'-aminoguanidine derivatives, 975

malonate ligand platinum compounds, 4992 multiple mechanisms of resistance cis-diamminedichloroplatinum(II), 2056

procarbazine spermatotoxicity anticancer activity and, separate mechanisms, 1547

spergualin antitumor activity CTL involvement, 3062 tumor-associated antigen recognition, semisynthetic antisera,

1006

Lectins animal

induced cytotoxin release, bone marrow cells, 47 DNA synthesis inhibition

antiproliferative response, leukemic cells, 4345

Hodgkin's cell

relation, hepatic asialoglycoprotein receptor, 2461 Rana catesheiana

characterization, tumor cell agglutination, 4877

altered metabolism

noncachectic sarcoma patients, 4746

adult T-cell-like disease clonal integration, Simian T-cell leukemia virus type I, 269

1-β-D-arabinofuranosylcytosine 5'-triphosphate accumulation saturation, 3005

cell differentiation

suppression of malignancy, bypass of genetic defects, 1981 chromosome change at 11q24

lines, 3842 cytotoxicity DNA breaks, nafidimide, 1040 methotrexate polyglutamylation, L-asparaginase, 1313 magnetic resonance spectroscopy, 3901 murine therapeutic selectivity, F-Ara-A, 700 therapy, antitransferrin receptor antibodies, 747 murine viruses lipoproteins, oncornavirus-inactivating factor, 667 non-T cell B-cell elimination from bone marrow, immunobeads, 846 radiation leukemia virus-induced clonal analysis, 6590 retroviruses carcinogens, pathogens, 1199 Leukemia, acute childhood high dose 1-β-D-arabinofuranosylcytosine, biochemical pharmacology, 6786 curative cancer chemotherapy, 3907 protooncogene expression, 3747 Leukemia, acute nonlymphoblastic varying probability of development refractory anemia patients, excess blasts, 2196 Leukemia antigen common acute lymphocytic specificity, recombinant chimeric monoclonal antibody, 999 Leukemia, B-cell LAK cell therapy, 723 Leukemia, L1210: see also L1210 cells differential uptake cis-diamminedichloroplatinum(II), 6549 enhanced folate analogue transport methotrexate therapy, 5334 generation of antigen-loss variants detection, tumor-specific T-cell clone, 6494 methazolastone-induced DNA damage repair, chloroethylnitrosoureas, 4884 response to high-dose chemotherapy, 2323 Leukemia, lymphoblastic childhood resistance, 1-β-D-arabinofuranosylcytosine, 3088

common acute establishment of cell line, chromosome 3 band q26 deletion, 1652 unique epitopes, monoclonal anti**bodies**, 2160 mitoxantrone/vincristine/prednisone acute lymphocytic leukemia, chronic myelocytic leukemia, 5234 phase I study 4-demethoxydaunorubicin, children, 2990 Leukemia, lymphocytic acute mitoxantrone, vincristine and prednisone, 5234 chronic DNA strand breaks, 2'-deoxycoformy-

cin, 2498

Leukemia, lymphoid electrofocusing pattern fucosyltransferase activity, 2782 4-hydroperoxycyclophosphamide intrathecal administration, 5932 Leukemia, myeloblastic colony-stimulating factors, clonogenic leukemic blast cells, 5647 1-β-D-arabinofuranosylcytosine 5'-triphosphate, 3130 inhibition messenger RNA transcription, c-mybspecific peptide, 1052 potentiation of cytotoxicity 1-β-D-arabinofuranosylcytosine, cadeguomycin, 713 Leukemia, myelocytic acute expression of protooncogenes, c-myc/ c-fos/c-fms, 874 chronic mitoxantrone, vincristine and prednisone, 5234 Leukemia, myelogenous cell line development 4'-(9-acridinylamino)-3-methanesulfon-m-anisidide, 1897 chronic effect of α-interferon, bcr-abl fusion gene, 6629 granulocyte sialyltransferase, 2763 tyrosine protein kinase activity, fresh cells, 1731 multidrug-resistant gene transfer and cloning, 2620 Leukemia, myeloid acute trophoblast cell line conditioned medium, antigenic characterization, 6413 chronic tumor necrosis factor effect, human progenitor cells, 4788 effect of 1-β-D-arabinofuranosylcytosine anthracyclines, 2376 effects of phorbol ester protein kinase C, 6363 electrofocusing pattern fucosyltransferase activity, 2782 growth control vitamin D₃ analogues, other differentiation inducers, 567 interaction HL-60 cell line, marrow stromal cell lines, 2879 monoclonal antibody hematopoietic survival and growth factor, 5025 refractory action of tiazofurin, 4988 Leukemia, myelomonocytic constitutive production of interleukin 1, 2589 differentiation therapy lipopolysaccharide and daunomycin, 1668 Leukemia, nonlymphoblastic acute clonal growth patterns, childhood, 4225 Leukemia, P388 decrease of protein synthesis

sodium cyanate, P388 leukemia cells, 5102 **DNA** strand breaks resistance to anthracyclines, 3752 identification of Vinca alkaloid acceptors photoactive analogue of vinblastine, 5149 multidrug resistance phorbol ester receptor, protein kinase C, 3460 quinocarmycin citrate antitumor activity, 1516 acute lymphoblastic specific cell membrane antigen, 4283 **HTLV-I** transformation quantitative assay, 2468 lymphoblastic expression of GD₃ ganglioside, children, 1724 Lenkemia virus acute DNA-binding protein, 6586 Leukemic cells protooncogene expression, 3747 antiproliferative response inhibited DNA synthesis, cellular metabolism, 4345 1-β-D-arabinofuranosylcytosine 5'-triphosphate accumulation saturation, 3005 atypical multiple drug resistance analysis, 5455 resistance to teniposide, 1297 **B-chronic lymphocytic** control of phosphofructokinase, fructose 2,6-bisphosphate, 1859 clonal growth patterns childhood acute nonlymphoblastic leukemia, induction response, 4225 clonogenic blast cells colony-stimulating factors, granulocyte/macrophage and native granulocyte, 5647 comparative cytotoxicity drug combinations, normal hematopoietic precursors, 119 DNA incorporation 1-β-D-arabinofuranosylcytosine, 6532 electrofocusing pattern fucosyltransferase activity, 2782 elimination of combined use of ether lipids, 2599 gallium-67 uptake transferrin mechanisms, 3929 growth and differentiation effect of interleukin 1, 2397 HL-60-1E3 novel phorbol diester-resistant cell line, 1319 hyperthermic enhancement of cytotoxiccis-diammine-1,1-cyclobutane dicarboxylate platinum(II), 4335 multiple resistance enhancement, sodium channel current, myeloblasts and lymphoblasts degradation, 1-β-D-arabinofuranosylcytosine 5'-triphosphate, 3130 myeloid growth control, differentiation inducers, 567 imbalance, nucleotide pools, 1841

metastasis enhancement

MCS-2 antigen, polymorphonuclear leukocytes, 5570 nutritional requirements adjuvant therapy, 2380 rapid growth fibrin clot subrenal capsule assay, 3824 susceptibility natural killer cell-mediated cytotoxicity, 2674 Leukocytes peripheral cis-diamminedichloroplatinum(II)-induced DNA adducts, 3000 polyamine depletion topoisomerase II DNA cleavage, 6437 polymorphonuclear cytotoxicity, streptococcal preparation, 6204 lymphokine-activated, antitumor effect, 6000 MCS-2 antigen, myeloid leukemic cells, 5570 tumor cytotoxicity in beige mice, linear β-1,3-glucan, 4842 presence of granulocyte sialyltransferase chronic myelogenous leukemia, 2763 production of interleukin 1α-like factor hypercalcemia, squamous cell carcinoma, 6474 Leukoregulin distinction from lymphotoxin and interferon, 914 Leukosis viruses avian proliferative fibromatosis, skeletal muscle, 2083 Lewis antigens monoclonal antibodies ovarian carcinoma ascites cells, 6741 presence of fucolipid antigens circulating immune complexes, adenocarcinoma, 5566 relationship of carbohydrate antigen 19-9 pancreatic cancer, 5501 Lewis lung carcinoma tumor blood amino acid compartmentation, 5644 5-fluoro-2'-deoxycytidine tumor-selective metabolism, versus 5fluorouracil, 2354 migration effect of prostaglandin E2, 3679 modulation of immune response and tumor development thymic factor thymostimulin, tumorbearing mice, 3351 suppressor bone marrow cells tumor-induced hematopoiesis, 100 Li-Fraumeni familial cancer syndrome skin fibroblasts X-ray sensitivity, 4229 Ligands malonate platinum compounds, L1210 cells, 4992 patterns of binding hepatocarcinogenesis, 3954 hematoporphyrin derivative and photodynamic therapy, modulation,

Linoleic acid

transplantable mammary tumor, 6171 Lipid peroxidation liver nuclei choline-devoid diet, hepatocarcinogenesis, 6731 Lipids activation of peritoneal macrophages lysophospholipids, ether derivatives, 2008 antitumor activity doxorubicin-containing liposomes, rat solid tumor model, 3366 doxorubicin-induced cardiopathy genesis, role of phospholipase, 1239 elimination of leukemic cells, 2599 fatty acid modification benzo(a)pyrene metabolism, C3H 10T1/2 cells, 2385 inositol metabolism inhibition, Adriamycin, 2799 membrane modification in tumors, 4529 modification of activities phorbol diesters, 135 origin of colon cancer, 4237 Lipiodol reduction of hepatic metastases administration, portal vein, 852 selective anticancer effects 3',5'-dioctanoyl-5-fluoro-2'-deoxyuridine, 1930 Lipolysis streptozotocin-induced diabetes stimulation of tumor growth, 1756 Lipolytic factors production tumor-producing cachexia, host, 5919 Lipopolysaccharides daunomycin and differentiation therapy, myelomonocytic leukemia, 1668 y-interferon Kupffer cell activation, 3880 macrophage-mediated tumor cytotoxicity induction by interferons, 2804 myeloid leukemic cell line growth and differentiation, effect of IL 1, 2397 TNF and synergism, combination immunotherару, 115 Lipoproteins low density antitumor drug delivery, 4105 receptor stimulation, conditioned medium, 4630 oncornavirus-inactivating factor murine leukemia viruses, laboratory and exotic mice, 667 Liposomes Adriamycin targeting therapy, 4471 antibody-directed targeting role of binding, growth inhibition, cellular toxicity modulation, nitrogen mustard, 472 doxorubicin-containing lipid composition and antitumor activity, rat solid tumor model, 3366 Kupffer cell activation γ-interferon, 3880

multivesicular 1-β-D-arabinofuranosylcytosine, intrathecal therapy, 3935 pH-sensitive cytotoxicity, diphtheria toxin A fragment, 735 Lithium aluminum hydride hematoporphyrin derivative structure and stability, 4642 Lithocholic acid effects on DNA, 2866 allyl alcohol-induced sublethal damage doxorubicin metabolism, toxicity in rabbit, 3259 analysis of c-myc expression human hepatoma cell line, 3414 arterial Y-90 microspheres regional bromodeoxyuridine infusion, 3285 asialoglycoprotein receptor Hodgkin's cell lectin, 2461 autoradiographic imaging sarcoma, 4706 blocking agents biodistribution, ricin toxin A chainmonoclonal antibody, 5277 B16 melanoma metastases effect, anti-B16 melanoma MoAb, 2771 carcinogen-induced pleiotropic drug resistance hepatocytes, 5577 chronic disease hepatitis intervention study, Gambia, 5782 coordinate polypeptide expression hepatocarcinogenesis, comparison of models, 2839 **DNA** adducts microfluorometric determination, 2acetylaminofluorene, 2098 **DNA** fragmentation N-nitroso compounds, dose-response curves, 3485 dose-response studies α -/ β -/ γ -hexachlorocyclohexanes, 80 dysfunction phase I study, menogaril, 6104 early stage of neoplastic transformation hybridization studies, albumin and αfetoprotein, 5469 effect of ischemia nucleosides and bases, 3092 endogenous retrovirus-related sequences factors influencing expression, 795 epithelial cells cell growth, laminin enhancement, 3802 phenotypic modulation, tumorigenesis, tumorigenicity, ras oncogene transfection, 4116 fish from polluted areas 32P-postlabeling, 6543 5-fluorouracil elimination dose and flow dependence, 5261 γ-glutamyl transpeptidase histochemistry effects of rat strain, diet composition and phenobarbital, 1130 host glucocorticoid receptor, 3742 1α-hydroxyvitamin D3-treated animals

systemic inhibition, ornithine

decarboxylase, 5031

hyperplasia

mitogen-induced, growth of enzymealtered islands, 5557

macrophage-mediated cytotoxicity, 6686 metabolism of mutagets and carcinogens hepatitis virus infection, 4052

N-nitrosobis(2-oxopropyl)amine, N-nitroso(2-hydroxypropyl)(2-oxopropyl)amine, 4776

metastases

treatment and prophylaxis, reticulosarcoma, 6462

metastasis formation

inhibition of lymphoma invasion, pertussis toxin, 5439

metastasizing ability

animal model, colon cancer metastasis, 1398

methylazomethanol metabolism effect of chronic dietary ethanol, DNA methylation, 5939

MoAb to cytochrome P-450 metabolism, aniline and nitr

metabolism, aniline and nitrosamines, 3101

monoclonal antibodies kinetics in humans, 3328

nafenopin-treated fatty acyl coenzyme A oxidase, efflux of oxidized glutathione, 4795

6-nitrochrysene-DNA adduct formation, 6272

N-nitrosodimethylamine demethylase nature of, inhibitors, 3378

choline-devoid diet, hepatocarcinogenesis, 6731

OC-125 antibody compared to 19-9 antibody

radiolabeled with 111In, 6111

perioperative immunoactivation prevention, metastatic growth, 2748

phosphofructokinase phosphorylation subunit composition, human gliomas, 5047

reduction of metastases oily anticancer agent, 852

regional administration Intralipid, hexamethylmelamine pharmacokinetics, 5070

regulation

N-nitrosodimethylamine demethylase, 5948

tyrosine aminotransferase gene expression, 5415

U.S.-Japan Cooperative Cancer Research Program Conference, 922

Liver cells

aflatoxin B₁ hepatocarcinogenesis ethoxyquin protective effect, metabolic basis, 5218

Liver microsomes

cytochrome P-450-mediated O-demethylation

etoposide activation, 4658 N-nitrosodimethylamine

denitrosation, methylamine and nitrite, 447

deuterium isotope effect, denitrosation and demethylation, 3373

metabolism and activation, hamster and rat, 992

metabolism of azomethane, ethanol,

preparations

aromatic amine N-glucuronidation, 2028

2,3,7,8-tetrachlorodibenzo(p)dioxin-induced

 α -naphthoflavone, clastogenicity, 3662

Liver neoplasms aflatoxin exposure

hepatitis B virus, Kenya, 3430

GGT-positive foci irreversibility, 2328

induced by diethylnitrosamine

expression, retroviral sequences and oncogenes, 3421

nitrosodialkylamines and azoxyalkanes carcinogenesis, 3968

occupational risks

registry-based analysis, Sweden, 287 primary and secondary

oxidative and conjugative enzymes,

selective anticancer effects

3',5'-dioctanoyl-5-fluoro-2'-deoxyuridine, 1930

Liver nodules

tumors and

heme enzyme patterns, 963

Luminal cells

cytokeratin characterization human prostatic carcinoma, 281 Lung

adenocarcinoma-associated antigens distribution, monoclonal antibodies, 1267

autoradiographic imaging sarcoma, 4706

colonization by B16 melanoma suppression of, syngeneic monoclonal

antibodies, 2696

human cell lines

deepithelialized rat tracheas, preneoplastic and neoplastic growth, 573

inhibited PAH-DNA adduct formation plant phenols, 767

metastasis

degradation, basement membrane type IV collagen, 4869

metastatic potential

human melanoma xenografts, 2305 6-nitrochrysene-DNA adduct formation, 6272

pulmonary cytochrome P-450 effects, 3-methylcholanthrene and phenobarbital, 1878

Lung cells

microvascular permeability recombinant interleukin 2.

recombinant interleukin 2, albumin, 3528

mink

antigenic nucleoproteins, oncogenetransformed cells, 2284

Lung neoplasms

activation of K-ras protooncogene tetranitromethane, 3212

analogy

potent immunosuppressant, fetal haptoglobin, 5120

antitumor activity

pleural cavity macrophages, lymphocyte regulation, 5497

role of alveolar macrophages, 2199 bronchial carcinogenesis

differential susceptibility, 5202 cell selective DNA alkylation

exposure, tobacco carcinogen, 1143 clonal proliferation

monokines, lymphokines, 4081 cytotoxicity

N¹,N⁸-bis(ethyl)spermidine, 3964 decreased risk

cotton textile industry, Shanghai, 5777 enhanced gene expression

glyceraldehyde-3-phosphate dehydrogenase, 5616

first and second generation Americans, 5771

growth severe c

severe combined immunodeficiency, 2456

heterogeneity

immunocytological detection, 3225 imaging

immunolymphoscintigraphy, pulmonary and mediastinal lymph nodes, 3572

involvement of chromosome 7 nonmalignant normal lung tissue,

low density lipoprotein

receptor stimulation, conditioned medium, 4630

malignant pleurisy

LAK cells, recombinant IL-2 intrapleural instillations, 2184 metabolism of arachidonic acid, 3757

metabolism of mutagens smoking habits, 4740

monoclonal antibody recognition of cancer antigen CA-125, 6335

non-small cell

chromosome 7 as marker, 6349 distinction from small cell, monoclonal antibody, 826

glycoprotein variation, small cell cancer, 1161

immunization, antibody responses, 5009

levels of high energy phosphates, NMR spectroscopy, 3357

novel intrapulmonary model orthotopic propagation, 5132

primary solid growth factors, use in culture, 2903 small cell

Adriamycin resistance, role of free radicals, 4613

biochemical marker, serum pseudouridine, 6138 bone marrow involvement, detection,

2737 cell line from primary tumor, 3p deletion, 2148

characterization, two cell lines, 1883 complete remission, chemotherapy,

distinction from non-small cell, monoclonal antibody, 826

glycoprotein variation, non-small cell cancer, 1161

growth inhibition, physalaemin, 2371 heterogeneous cytogenetic abnormalities, 3322

immunization, antibody responses,

levels of high energy phosphates, NMR spectroscopy, 3357 mafosfamide-surviving cells,

lysis of, 2547 multidrug resistance, Adriamycin, 2594 protooncogenes, amplification and expression, 6236 screening with indirect imunotoxin, monoclonal antibodies, 5552 selective stimulation, bombesin and gastrin-releasing peptide, 821 vitamin A deficiency, reversible squamous cell characteristics, 3533 small cell antigen isolation, human brain, 960 sonamous tumor-associated carbohydrate epitopes, 6697 xenografted radiolocalization, monoclonal antibody, 5427 Luteinizing hormone ethylamide effects of ionizing radiation, ovarian follicle development, 5005 use in cell culture simulation of constraints on tumor growth, 4924 Lymphatics targeting murine radiolabeled MoAb, 2073 Lymph nodes early breast cancer prognosis, DNA index and S-phase fraction, 4729 melanoma-draining suppressor cell activity, 1529 primary large bowel carcinomas, genotypic and phenotypic features, 4342 tumor-draining functional immunocompetence, humans, 1740 tumor-involved immortalization, lymphocytes, 5181 Lymphoblasts killing and mutation aflatoxin B₁, 1993 leukemic DNA cross-link formation, 2-chloroethyl(methylsulfonyl) methanesulfonate, 3384 Lymphocytes activated lysis, mafosfamide-surviving tumor cells, 2547 agglutinant Hodgkin's cell lectin, 2461 B-cells and B-chronic lymphocytic leukemia cells control of phosphofructokinase, fructose 2,6-bisphosphate, 1859 circulating pool specific induction, local antitumor effector cells, 5581 immortalization tumor-involved lymph node, 5181 Leu-2 suppressor-cytotoxic T-cells depletion of, 2727 lysis of autologous tumor cells functional analysis, 173 normal and malignant mutation rate, 407 pleural cavity antitumor activity regulation, lung

cancer, 5497 proliferation sodium transmembrane signal, DNA strand break rejoining, 5397 suppressor T-cell differentiation 12-O-tetradecanoylphorbol-13-acetate, 3729 tumor-infiltrating long-term IL 2-dependent growth, squamous cell carcinomas, 6353 tumor necrosis factor-like activity cell wall skeleton, Nocardia rubra, 1785 vascular response angiogenesis inhibition, interferons, Lymphoid cells antiproliferative effects suramin, 4694 effect of 5-azacytidine DNA methylation, deoxycytidine kinase, 3672 marker of activation melanoma-associated antigen, 5175 Lymphokines activated polymorphonuclear leukocytes antitumor effect, 6000 effect of tumor necrosis factor induction, macrophage tumoricidal activity, 2793 monokines and clonal proliferation, lung cancer, 4081 Lymphoma cells autonomous Nb2 node

autonomous Noz node
prolactin as growth initiator, butyrate,
1751
B-cell follicular
in vitro transformation, Epstein-Barr
virus, 2062
B-cell reaction
Lym-1 and Lym-2 monoclonal antibodies, immunotherapeutic potential, 830
metastatic large cell
malignancy, cell surface properties,
3551
polyamine synthesis and growth

synergistic inhibition, difluoromethylornithine plus methylthioadenosine, 1771

BW5147 T-cell ras-transfection, invasion and metastasis, 754

chemotherapy of, 5810 follicular

clonal evolution, 2537 high-dose epirubicin phase I-II trial, 6393

HTLV-I transformation quantitative assay, 2468

inhibition of invasion liver metastasis formation, pertussis toxin, 5439

large cell blood-borne metastatic properties, virus superinfection, 2558 malignant

chromosome abnormalities, patients from Saitama, 6767 non-Hodgkin's

curative cancer chemotherapy, 3907 phase II trial, 9-β-D-arabinofuranosyl-2-fluoroadenine 5'-monophosphate,

2719 radiation leukemia virus-induced leukemic cells clonal analysis, 6590 hydroxyurea-induced cell death, cell cycle, 6490 immunolymphoscintigraphy, T101 monoclonal antibody, 6093 thymic neoplastic effects, isopropyl methanesulfonate, 3402 prelymphoma cells, radiation-induced, 3469 Lymphotoxin distinction direct-acting anticancer hormone, 914 mononuclear cells tumor infiltration, functional analysis, 173 T-cell-mediated progressive growth, immunogenic tumors, 4759 Lysophospholipids

activation of peritoneal macrophages

ether derivatives, 2008

M Macromolecules cellular peroxidase-catalyzed etoposide metabolism, 5835 mitomycin C-dextran conjugate disposition, normal and tumor-bearing muscle, 5546 Macrophages accessory cell dysfunction viral DNA synthesis, osteopetrosis, aclacinomycin administration enhanced activity, peritoneal cells, 3477 alveolar cell surface protein composition, smoking, 3072 generation of superoxide, asbestiform, 1681 ascites-associated γ-interferon, indirect antitumor effect, Bacillus Calmette-Guérin-activated tumoricidal effector mechanisms, 2014 content murine sarcomas, carcinomas, 1069 content of spontaneous metastases growth stages, 4141 cytostasis blood-borne metastatic properties, large cell lymphoma, 2558 effect of recombinant tumor necrosis factumoricidal activation, 5868 HL-60 differentiation resistant subclone c-myc altered regulation, 4595 liver differential sensitivity, cytotoxicity, 6686 myeloid leukemic cell line growth and differentiation, effect of IL 1, 2397 nitrite and nitrate synthesis, 5590 peritoneal

activation by lysophospholipids, ether derivatives, 2008 peritoneal exudate

prostaglandin production, induced by hyperthermia, 11

pleural cavity antitumor activity, lung cancer, 5497

potentiation of invasive capacity ascites hepatoma cells, 2167 suppression of tumoricidal activity herpes simplex virus, 1534

suppressor T-cell differentiation 12-O-tetradecanoylphorbol-13-acetate,

thermal radiosensitization

radiation response, bone marrow progenitors, 1538

TPA-resistant mutants

non-colony-stimulating growth factor, 2777

tumor cytokinetics

P-815 mastocytoma cells, 2067

tumor cytotoxicity

induced by interferons, 2804

tumoricidal activity

induction, tumor necrosis factor, 2793 tumor necrosis factor-like activity cell wall skeleton, Nocardia rubra,

1785

Mafosfamide

aldehyde dehydrogenase inhibitors sensitivity to oxazaphosphorines, progenitor cells, 3180

surviving tumor cells lysis, activated lymphocytes, 2547

Magnesium

calcium and zinc

benign nodular hyperplasia, prostate, 323

Major histocompatibility complex antibody-directed targeting

liposomes, binding and growth inhibition, 5954

class I

expression in thyroid cell lines, 4178 immunogenicity, mammary carcinoma, 4915

Kirsten-ras oncogene expression, fibrosarcoma tumor, 2553

response to interferon, teratocarcinoma cells, 740

targeting in lymphatics, radiolabeled MoAb, 2073

xenogenization of tumor cells, gene transfer, 3136

class II

HLA-D/DR association, CD8-positive T-cells in gut tumors, 2919

Malignancy

cell surface properties metastatic large cell lymphoma cells, 3551

c-Ki-ras gene amplification embryonal carcinoma cells, 867

core protein of milk mucin breast cancer, reactive monoclonal antibodies, 5476

melanoma-associated antigen expression rapidly dividing human melanocytes, culture, 305°

RNA-proteolipid complex sera, tumor marker, 6407

suppression cell differentiation, bypass of genetic defects, 1981

Malignant cells insulin receptor regulation tumor cells, 6500

Malonate

ligand

platinum compounds, L1210 cells, 4992

Mammalian cells

cell kinetic effects CI-921, 424

cis- and trans-diamminedichloroplatinum(II)

differential toxicity, DNA-bound adducts, 31

DNA polymerases

inhibition, α-interferon and γ-interferon, 5971

genome

heterogeneous DNA damage and repair, 6426

genotoxic effects

benozo(a)pyrene-DNA adduct levels, 3388

mutagenicity

excimer laser radiation, 410

Mammary cells **DNA** adducts

interspecies differences,

benzo(a)pyrene and 7,12-dimethylbenz(a)anthracene, 4402

Mammary ducts

direct action of 17\beta-estradiol sustained release implants, steroid autoradiography, 6052

Mammary glands

genital tract changes

steroid receptor levels, diethylstilbestrol, 4165

proliferative activity

dietary fat and calcium, 4905

Mammary neoplasms

A-ring substituted estrogens, 4623 carcinogen-altered mammary epithelium proliferation, 4425

chemically induced

inhibition by caloric restriction, dietary fat, 2759

epidermal growth factor importance implantation and growth, 4651

estrogen receptor binding to nuclei, 2852 hormone-dependent model, 4093 immune T-cells

adoptive transfer, "innocent bystander" cytotoxicity, 1105 interleukin 2 therapy

local and systemic effects, 4296

metastasis enhancement dietary linoleic acid, 6171

ovariectomy-induced regression β-glucuronidase, 3980

primary C3H mouse

spontaneous metastasis, 547

quinocarmycin citrate antitumor activity, 1516

response to hyperthermia and radiother-

nuclear magnetic resonance spectrosсору, 6467

transplacental effects

diethylstilbestrol, mammary development, 4508

tumor antigen

apocrine metaplasia, 902

tumor-derived factors

neutrophilia, hypercalcemia, 4059

tumor metabolism

dietary fat modulation, NMR spectroscopy, 5631

variants

estrogen-binding proteins, 4287

Mammary tissues

carcinogen-altered proliferation, 4425

development

transplacental effects, diethylstilbestrol, 4508

hormonally defined serum-free medium growth and continuous passage, 3776 preneoplastic

differentiation-specific proteins, 4686

Mammary tumor virus

oncogenesis DIM series, BALB/c preneoplasms, 5707

Mastocytoma cells, P815

cytokinetics, 2067

macrophage-mediated tumor cytotoxicity induction by interferons, 2804

Adriamycin resistance

hexose monophosphate shunt, oxidant stress, 5994

isolation, amplified and overexpressed DNA sequences, 5141

cell cycle and maturation

influence, 12-O-tetradecanoylphorbol-13-acetate, 1615

effects of aromatase inhibitor, 4548 effects of 17β-estradiol and R5020

glucose-6-phosphate dehydrogenase, 5116

estrogenic trophic effect

estrogen conjugates, serum factors,

estrogen-independent tumorigenicity v-ras oncogene transfection, 5733 growth

direct inhibitory effects, somatostatin analogues, 1566

insulin receptor regulation, 6500 Mr 39,000 glycoprotein secretion estrogen inhibition, 1234

plasminogen activator suppression 2,3,7,8-tetrachlorodibenzo-p-dioxin, 6198

proliferation

absence of estrogens, 4355

role of serum

prolactin responsiveness, long-term tissue culture, 3509

MDAY-D2 cell line

lectin-resistant mutants glycosphingolipids, 150

6-Medroxyprogesterone acetate sensitivity to inhibition

dihydrodiol dehydrogenase, tissue distribution, 680

Medulloblastoma

xenotransplanted

blood flow, blood-to-tissue transport, 1687

Megakaryocytes

acute nonlymphoblastic leukemia probability of development, refractory anemia, 2196

Megestrol acetate

prolactin release-inhibitory effects

pituitary tumor cells, 3667 MeIQx: see 2-Amino-3,8-dimethylimidazo[4,5-f]quinoxaline Melanocytes discrimination

benign nevi, malignant melanoma, 841 follicular

selective cytotoxicity, 4-S-cysteaminylphenol, 3278

rapidly dividing

melanoma-associated antigen expression, culture, 3057

altered ganglioside expression

in vitro and in vivo, 1278 antibody-mediated cellular cytotoxicity interleukin 2 enhancement, 6600

characterization P nuclear magnetic resonance spec-

trum, 5065 class 1 tumor antigens, 6614 expression of c-src protooncogene human skin tumors, 235

glucocorticoid effect melphalan cytotoxicity, cell-cycle posi-

tion, 4814 growth and metastasis transplantation, 4465

host response natural killer cells, 1411 human xenografts

metastatic potential, 2305 induction

evaluation, premalignant and malignant lesions, 1251

inhibited growth estrogen, 453

lymph nodes suppressor cell activity, 1529 mafosfamide-surviving tumor cells lysis of, activated lymphocytes, 2547

malignant inheritance, Sinclair swine, 5542 therapy, monoclonal antimelanoma

antibody-ricin A chain, 1717 tumor rejection antigen, 5841 MoAb-defined correlations

G_{D2} and G_{D3}, antibody-mediated cyto-toxicity, 1229

neutron capture therapy boronophenylalanine, 6377

quantitative neutron capture radiography biodistribution, boron-containing compounds, 5451

similar tumors

induction of ocular tumor in newts, nickel subsulfide, 5213

studies on mechanism of action abrin-9.2.27 immunotoxin, 6243 tumor-draining lymph nodes

functional immunocompetence, humans, 1740 tumor progression

loss of heterozygosity, 3995 Melanoma-associated antigen

expression in rapidly dividing melano-

culture, 3057 high molecular weight

heterogeneity, monoclonal antibodies, 2474

human and guinea pig cross-reactivity, monoclonal antibodies, 4835

immunogenicity

monoclonal antibodies, allogeneic and xenogeneic hosts, 5284 immunotoxins

comparisons with A chain conjugates, 3169

marker of activation lymphoid cells, 5175 monoclonal antibodies

antiidiotypic antisera, 4312

Melanoma, B16 metastatic variants

cathepsin B-like cysteine proteinase. plasma membrane-associated, 6620 viral antigens

syngeneic monoclonal antibodies, 5391

Melanoma cells amplification unit

partial homology, 4485

BL6

increased metastasis, desmoplasia, 1663

DNA methylation levels 5-methylcytosine, 2264 doxorubicin resistance

complement enhancement, 4601 drug-induced cytotoxicity

DNA cross-links, formation and removal, 2631

effects of prostaglandins, 3141 glycolipid antigen

fluctuations in expression, monoclonal antibody Leo Mel 3, 225

growth inhibition antibodies, retinoic acid action, 3152

human and guinea pig melanoma-associated antigen cross-reactivity, monoclonal anti-

bodies, 4835 metastases

DNA amplification, 3851

Melanoma cells, B16 cell surface modulation differentiation, 3863

drug resistance metastasis, 2604 liver metastases

effect, anti-B16 melanoma MoAb,

macrophage-mediated tumor cytotoxicity induction by interferons, 2804

phenotypic diversity anti-B16 monoclonal antibodies, 1111 progressively Adriamycin-resistant, 3464 rate of karyotypic instability

metastatic potential, 3835 slow growth in aged mice role, thymus and T-cells, 3097 suppression of lung colonization syngeneic monoclonal antibodies,

2696 Melphalan: see also L-Phenylalanine mustard

antitumor activity fluosol-DA enhancement, various oxygenation conditions, 5036

antitumor immune reactivity tumor bearer thymocytes, 4848

cytotoxicity effect of glucocorticoid, melanoma cell lines, 4814

Meningioma human

characterization, epidermal growth factor receptor, 2172

Menogaril

phase I study hepatic dysfunction, 6104

Mephenytoin

genetic predisposition bladder cancer, 5488

Merbarone

distribution

autoradiography, whole-body cryosections, 1135

2-Mercaptoethanesulfonate

combined with cyclophosphamide or Adriamycin treatment, mice with tumors, 799

3-Mercaptopicoline

induced hypoglycemia rhodamine and, Walker 256 carcinoma, 3684

6-Mercaptopurine

antitumor disulfide cytotoxicity glutathione depletion, murine cells, 4391

Mesenchymal cells

expression of growth factors human mammary carcinoma cell lines, 3425

Mesna: see 2-Mercaptoethanesulfonate Mesothelial cells

transforming growth factor-β platelet-derived growth factor and, 6180

Mesotheliom

asbestos-induced

intermediate filament proteins, 5461 malionant

antitumor activity, intraperitoneal immunotoxins, 4266

solid and ascitic tumor model, 3199 transforming growth factor-β

platelet-derived growth factor and, 6180 Metallothionein

renal

detoxification, cis-diamminedichloroplatinum(II), 983

neoplastic lesions

metallic ear tag sites, Wistar rats, 2445

Metal salts

anchorage independence diploid foreskin fibroblasts, 3815

Metastases appropriate breast cancer paradigm, 339

colon cancer animal model, 1398

colorectal cancer immunodetection, monoclonal antibody localization, 1185

sulfated glycoproteins, 2741 complementation of monoclonal antibody

carcinoma, 4218

degradation of extracellular matrix glycosidase role, ovarian carcinoma,

differentiation

adenocarcinomas of ovary from colon, 505

drug resistance

B16 melanoma cell lines, 2604 enhancement

dietary linoleic acid, mammary tumor, 6171

hepatic

reduction, oily anticancer agent, 852 immunolymphoscintigraphy pulmonary and mediastinal lymph

nodes, 3572

inhibition of lymphoma invasion liver, pertussis toxin, 5439

y-interferon and tumor necrosis factor therapeutic properties, 2563

invasion and

location of genes, chromosome 7. 6666

Lewis lung carcinoma effect of prostaglandin E2, 3679

B16 melanoma, effect of monoclonal

antibody, 2771 treatment and prophylaxis, reticulosar-

coma, 6462

lymph node

primary large bowel carcinomas, genotypic and phenotypic features, 4342 mechanisms of tumor progression treatment, 2'-deoxy-5-azacytidine or

hydroxyurea, 2690 melanoma cell line

DNA amplification, 3851 melanoma growth and

transplantation, 4465 pattern of

embryonal carcinoma cells, 6315 platelet aggregation, effect of tumor cells, 3115 preferential

specificity of adhesion, tumor cells and capillary endothelium, 1492

prevention of growth perioperative immunoactivation, liver,

progressively Adriamycin-resistant B16-BL6 melanoma cells, 3463

spontaneous macrophage content, growth stages, 4141

primary C3H mouse mammary tumors, 547

transport of molecules

tumor interstitium, review, 3039

basement membrane type IV collagen, degradation, 4869

tumor cells

thrombospondin, 4130 tumor-draining lymph nodes

functional immunocompetence, humans, 1740

unusual isozyme of lactate dehydrogenase serum, carcinoembryonic antigen,

6156 Walker carcinosarcoma cells

chemoluminescence, oxygen radical generation, 4771 Metastatic ability

acquisition in hybridomas platelet-aggregating ability, 4396 blood-borne organ colonization macrophage cytostasis, large cell lymphoma, 2558

inherent tumorigenic properties Rat-1 and Rat-2 cells, 6384 leptomeningeal extracellular matrix

proteins growth and differentiation, glioma, 3515

natural killer cell regulation implantation and early lung growth, H-ras-transformed fibroblasts, 4801 tumor cell instability

diversification, progression, 1473

Metastatic cells therapeutic properties

interleukin 2, 5725 Metastatic potential

BW5147 T-lymphoma cells ras transfection, 754

fucosylglycoprotein adenocarcinoma, distal colon and rectum, 881

human melanoma xenografts, 2305 invasion and

new in vivo model, bladder carcinoma, 6660

rate of karyotypic instability B16 murine melanoma, 3835

Methazolastone induced DNA damage

chloroethylnitrosoureas, L-1210 leukemia cells, 4884 Methotrexate

antibody-directed targeting liposomes, binding and growth inhibition, 5954

antifolates and chemotherapy, 5528

blood-brain barrier disruption intracerebral osteogenic sarcoma, 6225 collateral resistance

cis-diamminedichloroplatinum(II), head and neck carcinoma, 5913

conjugated with anti-MM46 monoclonal antibody cytotoxicity, 1076

dibutyryl cyclic adenosine monophosphate

actinomycin D, modulation of chorionic gonadotropin, 383 drug resistance

metastasis, B16 melanoma cell lines, 2604

enhancement of folate analogue trans-

L1210 cells, 5334 10-ethyl-10-deazaaminopterin

toxicology, pharmacology, 2334 inhibition of differentiation choriocarcinoma cells, thymidine, 5059

polyglutamylation L-asparaginase-induced modulation,

leukemia L5178Y, 1313 N¹⁰-propargyl-5,8-dideazafolate synergistic growth inhibition, hepatoma cells, 5256

role of thymidine

biochemical modulation, 3911 8-Methoxypsoralen

DNA photoadducts immunological detection, visualization, 2451

Methyl(acetoxymethyl)nitrosamine hepatocarcinogenesis cell cycle-dependent initiation, 1263

Methylamine nitrite and

denitrosation of N-nitrosodimethylam-

ine, liver microsomes, 447

Methylation

ribosomal RNA

possible factor, cell differentiation, 169

Methylazomethanol

metabolism in colon and liver effect of chronic dietary ethanol, DNA methylation, 5939

Methyl-bis(β-chloroethyl)amine modulation of cellular toxicity murine cells, 472

Methylcellulose

culture cloning, neuroblastoma cells, 4146

effect of 1-β-D-arabinofuranosylcytosine anthracyclines, myeloid leukemia, 2376

Methylcholanthrene

bronchial carcinogenesis differential susceptibility, 5202 inducible isozyme of cytochrome P-450 inducibility phenotype, immunohisto-

chemistry, 6079
3-Methylcholanthrene

Ah receptor in human placenta, 4861 phenobarbital and

effects, pulmonary cytochrome P-450,

thyroid hormone induction K-ras protooncogene expression, 3052

Methylchrysene bay region methyl group

tumorigenicity, newborn mice, 5310 5-Methylchrysene

metabolic activation tumorigenic dihydrodiols, 3613

5-Methylcytosine DNA hypomethylation

pathological conditions, human prostate, 5274

reduced DNA methylation levels melanoma cells, 2264

Methylene blue

2-cyanocinnamic acid and enhanced hyperthermic cytotoxicity, L929 cells, 3341

Methylglyoxal bis(guanylhydrazone) isolation of resistant variants adenovirus-transformed cells, 1339

7-Methylguanine promoting effects

Chinese hamster embryo cells, 2440 O6-Methylguanine

molecular dosimetry of DNA adduct formation

4-(N-methyl-N-nitrosamino)-1-(3-pyridyl)-1-butanone, nasal mucosa, 6058 O⁶-Methylguanine-DNA methyltransferase

human fetal tissues

fetal and maternal factors, 51 2N-Methyl-9-hydroxyellipticinium

new congener of elliptinium acetate physicochemical and pharmacological properties, 6254

6-Methylmercaptopurine ribonucleoside inhibition of glycoprotein synthesis HL-60 cells, 6283

Methyl methanesulfonate **DNA** repair

3-aminobenzamide, C3H 10T1/2 cells, 1118

1-Methyl-3-nitro-1-nitrosoguanidine immunogenic variants of fibrosarcoma mutagenesis, antigen-specific crossprotection, 4413

3-(Methylnitrosamino)propionitrile betel guid chewers

carcinogenicity, DNA methylation, 467

4-(Methylnitrosamino)-1-(3-pyridyl)-1-bu-

formation of hemoglobin adducts, 2626 N-Methyl-N'-nitro-N-nitrosoguanidine induced DNA amplification

3-aminobenzamide, Chinese hamster cell line, 3632

induced gastric carcinogenesis

propranolol, effect of tetragastrin, 111 terminal differentiation-resistant epidermal cells

two-stage carcinogenesis, 1935 4-(N-Methyl-N-nitrosamino)-1-(3-pyridyl)-

1-butanon cell selective DNA alkylation

lung, 1143 molecular dosimetry of DNA adduct formation

nasal mucosa, neoplasia induction, 6058

Methylthioadenosine growth inhibition

normal and leukemic myeloid cells, 3830

plus difluoromethylornithine synergistic inhibition, polyamine synthesis and growth, 1771

Methyltriazenes

methazolastone-induced DNA damage chloroethylnitrosoureas, L-1210 leukemia cells, 4884

Mevalonic acid

mediators of cell proliferation Simian virus 40-transformed 3T3 cells, 4825

MIBG: see m-Iodobenzylguanidine

Microcapsules tumor assay

effects of anticancer drugs, tumor cells, 5739

Microfilaments

tumor-killing factor cellular receptors, analysis, 42

Microfluorometry DNA adducts in liver

2-acetylaminofluorene, 2098 Microscopy

fluorescent

binding and internalization, Bowman-Birk type protease inhibitors, 1602 immunoelectron

pX gene products, HTLV-I, 2077

Microsomes

N-nitrosodimethylamine metabolism and activation, hamster

and rat, 992

Microtubules

effects of inhibitors

etoposide accumulation and DNA damage, K562 cells, 1010

tumor-killing factor

cellular receptors, analysis, 42 Mifepristone

prolactin release-inhibitory effects pituitary tumor cells, 3667 Milk

differentiation-specific proteins preneoplastic mammary tissues, 4686

core protein, breast cancer monoclonal antibodies, 5476

Milk fat globules

cultured epithelial cells preservation, phenotypic traits, 856

monoclonal antibodies

experimental immunotherapy, breast carcinoma, 532

Misonidazole

binding

oxygen dependence, rodent and human tumors, 5367

carcinoma 19-9 monoclonal antibody radiosensitizer conjugation, 4071

induced cytotoxicity role of hypoxia, Ehrlich ascites cells, 2407

Mitochondria

adenylate kinase monoamine oxidase photosensitizing effects, photofrin II. 4323

BCG-activated macrophages

tumoricidal effector mechanisms, 2014 doxorubicin-induced cardiomyopathy genesis, role of phospholipase, 1239

photosensitization kryptocyanine dye, 6580

rhodamine 123

basis, selective cytotoxicity, 4361

Mitogenesis

transforming growth factor-β induced N,N-dimethylformamide and retinoic acid, embryo fibroblasts, 4278

Mitogens

estrogen-independent tumorigenicity v-ras oncogene transfection, breast cancer, 5733

induced liver hyperplasia

growth, enzyme-altered islands, 5557 trypsin and insulin

slow DNA rejoining, UV-irradiated fibroblasts, 4378

Mitomycin C

cisplatin and

heat and drug sequencing, 493

dextran conjugate

disposition, normal and tumor-bearing muscles, 5546

hyperthermia

Chinese hamster ovary cells, 1308 induced cytotoxicity

role of hypoxia, Ehrlich ascites cells, 2407

Mitosis

associated polypeptide

cell cycle deregulation, hyperplastic and malignant hepatocytes, 210 inhibitors of

comparison, 1,2-dihydropyrido[3,4-b]

pyrazines, 1621 renal cell carcinoma

long term serial transplantation, 221

Mitoxantrone

vincristine and prednisone

acute lymphocytic leukemia, chronic myelocytic leukemia, 5234

antitumor activity of 3-alkyl analogues, 5846

loss of Hu-ets-1 allele

chromosome change at 11q24, 3842 ML3 cells

induction of differentiation tumor necrosis factor, 1a,25-dihydroxyvitamin D₃, 2236

MNNG: see N-Methyl-N'-nitro-N-nitroso-

Molecular biology

current therapeutic application problems and prospects, meeting report, 3032

Molybdate

Ah receptor in human placenta, 4861 Monoamine oxidase

photosensitizing effects photofrin II, 4323

Mono-L-aspartyl chlorin

utilization

photodynamic therapy, 4681

Monoaziridinylputrescine cytotoxic activity

PC-3 prostatic carcinoma cell line, 3627

Monoclonal antibodies

17.1A

immune function, gastrointestinal carcinoma, 5238

abrin-9.2.27 immunotoxin

studies on mechanism of action, 6243 anti-B16 melanoma

effect, B16 melanoma liver metastases, 2771

anti-carcinoembryonic antigen

99mTc(Sn)- and 131I-labeled, pharmacokinetics, 1691

antigen expression hematopoietic progenitor cells, small

cell carcinoma of lung, 6556 antigenic heterogeneity

carcinoembryonic antigen, circulation, 56

antigens

fetal neuroblast cells, neuroblastoma cells, 2924

anti-human α-fetoprotein

Adriamycin entrapped in liposomes, targeting therapy, 4471 antimelanoma antibody-ricin A chain

immunotoxin

therapy, malignant melanoma, 1717 application of molecular biology meeting report, 3032

mammary cancer antigen, breast apocrine metaplasia, 902 pharmacokinetics, 1149

breast cancer

core protein, milk mucin, 5476 carcinoembryonic antigen

radioimmunotherapy, GW-39 human colonic tumor xenograft, 5672

carcinoma 19-9

radiosensitizer conjugation, 4071 cell cycle-related nuclear proteins, 3266 characterization

osteosarcoma cell line, osteoblastic

properties, 4961 chemoimmunoseparation

clonogenic T lymphoma cells, bone marrow, 4608

chimeric antitumor antibodies murine/human, 3577

circulating breast cancer marker CA-549, 5853

COL-4 differentiation, adenocarcinomas of

ovary and colon, 505 complementation carcinoma, 4218 correlations in melanoma levels of GD2 and GD3 antigens, antibody-mediated cytotoxicity, 1229 cytochrome P-450 metabolism, aniline and nitrosamines, 3101 47D10 distribution and characterization, 241 detection unique epitopes, CALLA, 2160 development of immunoassay cyclic DNA adducts, exposure to crotonaldehyde, 360 differential reactivity mammary carcinoma, normal breast, 4444 discrimination benign and malignant cells, melanocytic lineage, 841 distinction small cell from non-small cell lung cancer, 826 epithelial differentiation antigens ovarian carcinoma ascites cells, 6741 estrogen receptor detection, breast cancer, 6572 immunocytochemistry, breast cancer, 2508 evaluation of growth fractions human α-DNA polymerase, 1892 glycoprotein variation, lung cancer cells, 1161 flow cytometry analysis DNA damage and cytotoxicity, alkylating agents, 5537 gallbladder carcinoma-associated antigen, 4667 gastric adenocarcinoma or benign lesion differential expression, carcinoembryonic antigen, 3565 G_{D2}-specific localization, osteosarcoma, 5377 H antigen-like blood group antigen endometrial carcinoma, 3543 heterogeneity high molecular weight melanoma-associated antigen, 2474 human and guinea pig melanoma-associated antigen cross-reactivity, 4835 human epithelial cells surface epitope characterization, tumor diagnosis, 4417 human pancreatic cancer antigens, 1367 identification of Vinca alkaloid acceptors vinblastine photoactive analogue, P388 leukemia cells, 5149 immunoassav melphalan adducts of DNA, 1542 immunocytochemistry progesterone receptor, breast tumors, 2652 immunodetection colorectal cancer metastases, 1185 immunogenicity melanoma-associated antigens, allogenic and xenogenic hosts, 5284

immunotoxin toxicity

indium-labeled T101

antimelanoma antibody-ricin A, 1377

immunolymphoscintigraphy, cutaneous T-cell lymphoma, 6093 inducibility phenotype methylcholanthrene-inducible isozyme, cytochrome P-450, 6079 intravenous administration radiolocalization, intraperitoneal tumors, 6528 isolation brain, small cell lung cancer-associated antigen, 960 kinetics in humans, 3328 LAK cell therapy acute B-cell leukemia, 723 Leo Mel 3 glycolipid expression, differentiation of melanoma cells, 225 localization ovarian cancer xenografts, 4714 localization of radioiodine conjugate ovarian carcinoma, 4719 lung adenocarcinoma-associated antigens distribution, 1267 lung cancer heterogeneity immunocytochemical detection, neuroendocrine antigens, 3225 Lym-1 and Lym-2 reaction with B-cells, immunotherapeutic potential, 830 MCS-2 myeloid leukemic cells, polymorphonuclear leukocytes, 5570 melanoma-associated antigen antiidiotypic antisera, 4312 rapidly dividing human melanocytes, culture, 3057 MM46 and methotrexate cytotoxicity, 1076 mode of delivery intracranial glioma xenografts, 1941 modulation of tumor growth epidermal growth factor receptor, 3692 murine radiolabeled targeting, lymphatics, 2073 myeloid leukemia cell line hemotopoietic survival and growth factor, 5025 nucleolar antigen Mr 40,000 identification, partial characterization, partial characterization of nucleolar antigen P105 cell proliferation, 6329 penetration and binding anti-carcinoembryonic antigen, tumor spheroids, 1627 postoperative effect antibody-drug conjugate, 4293 B-cells, elimination from bone marrow, 846 radiolocalization xenografted human lung cancer, 5427 17.13 reactivity tumor diagnosis, squamous cell carcinoma, 5684 recognition of cancer antigen CA-125 immunization, lung cancer cells, 6335 recombinant chimeric specificity, common acute lymphocytic leukemia antigen, 999 regional localization glioma-associated antigen, 4432

immunization, small and non-small cell lung cancer, 5009 ricin A and B chain antibody conjugates selective killing, bladder cancer cells, ricin A chain conjugates biodistribution, hepatic blocking agents, 5277 inhibition, growth of tumor xeno-grafts, 5042 sandwich-enzyme immunoassay heterogeneity, circulating carcinoembryonic antigen, 4782 screening with indirect immunotoxin small cell lung cancer, 5552 secretory epithelial cell marker gastrointestinal tumors, 2092 selective enhancement N-acetyl melphalan, antitumor activity, 62 suppressor-cytotoxic T-cells depletion of, 2727 syngeneic B16 melanoma lung colonization, suppression, 2692 B16 melanoma viral antigens, 5391 T-cell acute lymphoblastic leukemia specific cell membrane antigen, 4283 therapy antitransferrin receptor antibodies, 747 Thy 1.1 ricin A chain, chemical deglycosylation, 947 tissue distribution epithelial antigen Egp34, 2883 transferrin receptor growth, solid tumor cells, 2040 tumor-associated antigens breast carcinoma, monitor of tumor burden, 907 Vinca immunoconjugates antitumor activity, 3118 "Y-labeled radioimmunotherapy, erythroleukemic mice, 1905 Monocytes activation of tumoricidal activity C-reative protein, 3959 blood γ-interferon, abdominal cavity transfer in peritoneal carcinomatosis, 6100 cytotoxic factor compared to tumor necrosis factor monocyte-mediated cytotoxicity, 2251 direct antiproliferative effects α-interferon B/D hybrids, tumor cell lines, 2020 retinoic acid-induced differentiation transplantable HL60 tumor, 1434 Monokines lymphokines and clonal proliferation, lung cancer, 4081 plasma protein synthesis experimental cancer, paraneoplastic conditions, 5825 Mononuclear cells tumor infiltration functional analysis, 173 Monooxygenases epidermal inhibition, plant phenols, 760 hexachlorocyclohexanes

responses

dose-response studies, liver, 80 nature of N-nitrosodimethylamine demethylase

inhibitors, 3378 Morphometry

ultrastructural

cytochemistry, HL-60 myeloid leukemia cells, 4932

Mucin

characterization of variants colon cancer cell line, 5715

core protein, breast cancer monoclonal antibodies, 5476

Multidrug resistance

Adriamycin

small cell lung cancer, 2594 "atypical" human leukemic cells analysis, 5455 cancer at the cellular level, 3337

decreased phorbol ester receptor protein kinase C, P388 murine leukemic cells, 3460

effect of bisbenzylisoquinoline alkaloids KB human cancer cells, 2413 EGF-toxin conjugate-resistant KB cell

lines, 2961 enhancement of sodium channel current leukemia cells, 3736

genetics of, 5982 linkage of amplified genes

Chinese hamster ovary cells, 2875 phosphorylation

Mr 170,000 to 180,000 glycoprotein,

transfer and cloning of gene, 2620

Multilamellar vesicles treatment of liver metastases

reticulosarcoma, 6462 Multiple myeloma

case-control study of whites epidemiology, 2978

Muramyldipeptide γ-interferon

Kupffer cell activation, 3880

autoradiographic imaging sarcoma, 4706

normal and tumor-bearing disposition, mitomycin C-dextran conjugate, 5546

production of lipolytic and proteolytic factors

tumor-producing cachexia, host, 5919 skeletal

proliferative fibromatosis, avian leukosis viruses, 2083

Mutagenesis

adenovirus-transformed cells isolation of resistant variants, methylglyoxal bis(guanylhydrazone), 1339 immunogenic variants of fibrosarcoma antigen-specific cross-protection, 4413 β-propiolactone-induced

inhibition, sodium thiosulfate, 4351

Mutagenicity bacterial

> carcinogenic potency, benzo(a)anthracene and others, 1509

cooked meat MeIQx, excretion in urine and feces,

dimethylnitrosamine carcinogenesis

cadmium exposure, 6606 excimer laser radiation

mammalian cells, 410 experiments on agroclavines, 1811 heterogeneous DNA damage and repair

mammalian genome, 6426 1-nitropyrene hepatoma cell line, 3163

Mutagens

carcinogenicity

predictive capability, Salmonella mutagenesis assay, 1287 hepatocyte metabolism

N-nitrosobis(2-oxopropyl)amine, N-nitroso(2-hydroxypropyl)(2-oxopropyl)amine, 4776

liver metabolism

hepatitis virus infection, 4052

pulmonary metabolism

lung cancer, smoking habits, 4740 Mycophenolic acid

detection of glial fragments astrocytoma cultures, 4900

Myeloblasts imbalance

nucleotide pools, 1841

Myelodysplastic syndromes

refractory anemia nonleukemic death, factors, 3599

Myeloid cells HL-60-1E3

novel phorbol diester-resistant cell line, 1319

induction of differentiation tumor necrosis factor, 1a,25-dihydroxyvitamin D₃, 2236

normal and leukemic growth inhibition, methylthioadeno-

sine, 3830 Myeloma cell line

production of growth factors, 4856 Myelomonocytic cells

retinoic acid-induced differentiation transplantable HL60 tumor, 1434

Myoepithelial cells 5-azacytidine induction

acinar cells, salivary intercalated duct cell clone, 4453

monoclonal antibody 17.13 reactivity tumor diagnosis, squamous cell carcinoma, 5684

Myofibroblasts

BL6 melanoma

increased metastasis, desmoplasia, 1663

Myricetin

inhibited PAH-DNA adduct formation epidermis, lung, 767

NAD(P)H

oxidizing dyes and 2-cyanocinnamic acid enhanced hyperthermic cytotoxicity, L929 cells, 3341

Nafenopin

role of fatty acyl coenzyme A oxidase efflux of oxidized glutathione, liver, 4795

Nafidimide

toxicity

DNA cleaving capacity, leukemia, 1040

α-Naphthoflavone clastogenicity

Chinese hamster ovary cells, 3662 immunosuppression

benzo(a)pyrene metabolites, humoral immune response, 2317

2-Naphthylamine

DNA binding

prostaglandin H synthase-catalyzed metabolism, 4007

α-Naphthylamine

N-glucuronidation

hepatic microsomal preparations, 2028

Nasal mucosa

molecular dosimetry of DNA adduct formation

4-(N-methyl-N-nitrosamino)-1-(3-pyridyl)-1-butanone, neoplasia induction, 6058

phenacetin

metabolic activation, binding to glands of Bowman, 1449

Natural killer cells

anticoagulant drugs

augmentation, antimetastatic effect, 809

cell surface properties

malignancy, metastatic large cell lymphoma cells, 3551

host response to melanoma, 1411 modulation and relationship to bropirimine activity

combination with chemotherapeutic drugs, 5894

regulation of implantation early lung growth, transformed fibro-blasts, 4801

relationship target cell cycle and susceptibility, 2767

selective immunosuppresion ochratoxin A, 2259

susceptibility of leukemic cell lines, 2674 T-cell depression

natural antitumor resistance, age-related changes, 3410

therapeutic properties interleukin 2, metastatic disease, 5725

Navelbine clinical pharmacokinetics, 5796

Neoantigen

immunogenic variants of fibrosarcoma mutagenesis, antigen-specific crossprotection, 4413 organ-specific

extraction, cancer cells and plasma

membranes, 1058 Neocarzinostatin

polymer-conjugated

binding and internalization, 3206 Neoplastic cells

colonic mucosa c-myb expression, 5266

phenotypic modulation chondrosarcoma, morphogenetic bone matrix-induced, 3589

prevention of dacarbazine damage DNA, aphidicolin, 26

Neoplastic tissue

importance of extended growth potential growth factor independence, mammary carcinoma cells, 5316 transport of molecules tumor interstitium, review, 3039

Neoplastic transformation

carcinogenesis research human tissues and cells, 1 colonic crypt cell dynamics, 4766 early stage in liver hybridization studies, albumin and αfetoprotein, 5469 influence of gangliosides, 4243 retinol and retinoic acid binding and metabolism, 10T1/2 cells, 5637 suppression and reversion of tumorigenicity cellular and molecular mechanisms, NIH workshop, 2514 Neopterin clinical significance prognosis and follow-up, ovarian cancer. 4977 Nephropathy endemic urinary tract tumors, Balkans, 3608 Nephrotoxicity subacute induced renal cell carcinoma, ferric nitrilotriacetate, 1867 Nerve growth factor glia maturation factor and glioma cells, 4109 stimulation embryonal carcinoma cell migration, 6324 Neuraminidase specific cell membrane antigen T-cell acute lymphoblastic leukemia, 4283 Neuroblastoma adjunctive use of ethiofos free radical generation, chemotherapeutic agents, 5411 antineuroblastoma activity desferoxamine, human cell lines, 1749 cell variants collagen biosynthesis, 6505 consistent N-myc copy number, 4248 early and advanced stage different karyotypic patterns, 311 inhibition adenosine nucleoside, dialdehyde analogues, 3650 m-[131]iodobenzylguanidine stability and pharmacokinetics, 6147 N-myc transcript stability, 6310 nude mouse-grown human verapamil-enhanced antitumor effect, cis-diamminedichloroplatinum(II), platelet aggregating activity thrombin generation, 2129 production of α subunit guanine nucleotide-binding protein, 5800 tumor growth chemical sympathectomy effects, catecholamine content, 5620 xenografts

DNA amplification, 3291

cell surface membrane antigen

recognition by monoclonal antibody,

cloning in methylcellulose culture, 4146

effect of dibutyryl cyclic adenosine mon-

effect of adenosine analogues, 3656

Neuroblastoma cells

ophosphate

retinoic acid and, cAMP-binding protein, 2417 morphological differentiation synthetic polyprenoic acid, 5433 neuronal phenotype coordinate changes, surface antigen expression, 1383 stress-induced thermotolerance cytoskeleton, 1674 subclones neurotransmitter receptors, myc protooncogenes, 5207 target antigen disialoganglioside Gp2, 1098 Neuroblasts fetal cell surface membrane antigen, monoclonal antibody, 2924 Neuroectoderm-associated antigens Ewing's sarcoma cell lines, 183 Neuroendocrine neoplasms production of a subunit guanine nucleotide-binding protein, 5800 Neuroendocrine peptides physalaemin growth inhibition, small cell lung cancer, 2371 Neuronal neoplasms regulation N-myc transcript stability, 6310 Neurotoxicity ifosfamide potentiation by cis-diamminedichloroplatinum(II), 1457 spiromustine phase I trial, 4213 SR 2508 pharmacokinetics, 319 Neurotransmitter receptors myc protooncogenes and, neuroblastoma subclones, 5207 Neutron capture therapy boronophenylalanine melanoma, 6377 Neutrophil activating factor streptococcal preparation spleen cells, polymorphonuclear leukocytes, 6204 Neutrophilia hypercalcemia-inducing mammary cancer cell line tumor-derived factors, 4059 Neutrophils peritoneal inflammatory tumor cell conjugation, respiratory burst stimulation, 2211 dysplastic melanocytic 5-S-cysteinyldopa, high performance liquid chromatography, 636 host response to melanoma natural killer cells, 1411 induction of melanoma evaluation, premalignant and malignant lesions, 1251 localization of chromosome damage comparison, calcium chromate, 2142 Nickel subsulfide induction of ocular tumor Japanese common newt, 5213

regulation, intracellular pH, 1497 NIH 3T3 cells differential phosphorylation events phorbol myristate acetate, 329 effects of growth factors antiproliferative activity, tumor necrosis factor, 780 inhibition of H-ras oncogene transformation protease inhibitors, 3159 Nitrate: see Nitrite Nitrite methylamine and denitrosation of N-nitrosodimethylamine, liver microsomes, 447 nitrate and synthesis, macrophage cell lines, 5590 6-Nitrochrysene **DNA** adduct formation lung and liver, 6272 Nitrofuran N-(2-chloroethyl)-N'-cyclohexyl-N-nitro-V79 spheroids, nitrofuran, 5303 N-[4-(5-Nitro-2-furyl)2-thiazolyl]formamide induced carcinogenesis enhancement, urinary tract infection, 559 Nitrogen mustard 1,3-bis(2-chloroethyl)-1-nitrosourea and brain tumor cell resistance, glutathione, 2525 cellular resistance cis-diamminedichloroplatinum(II), glial-derived cell lines, 1361 cellular toxicity modulation, murine cells, 472 C6-galactose mustard reduced bone marrow toxicity, 696 DNA cross-link formation and removal melanoma cells, 2631 resistant Chinese hamster ovary cells DNA cross-linking, glutathione S-transferase, 6022 1-Nitropyrene mutagenicity DNA synthesis and metabolism, hepatoma cell line, 3163 Nitrosamines aniline and metabolism, MoAb to cytochrome P-450, 3101 induced hepatocarcinogenesis cytochrome P-450 altered lesions. 2911 tobacco-specific formation of hemoglobin adducts, N-Nitrosobis(2-oxopropyl)amine induction of prostatic carcinomas lower urinary tract neoplasms, 5699 N-nitroso(2-hydroxypropyl)(2-oxopropyl)amine and metabolism to mutagens, hepatocytes, 4776 N-Nitrosobutyl(3-carboxypropyl)amine carcinogen metabolism experimental model, urinary bladder, 3697 Nitrosocimetidine blood-mediated denitrosation species differences, 353 Nitrosodialkylamines

new class of anticancer drugs

Nigericin

azoxyalkanes and carcinogenesis, 3968 N-Nitrosodimethylamine azoxyalkanes and

carcinogenesis, 3968

denitrosation

generation of methylamine and nitrite, liver microsomes, 447

denitrosation and demethylation deuterium isotope effect, rat liver microsomes, 3373

metabolism and activation microsomes, hamster and rat, 992 microsomal metabolism of azoxyme-

thane ethanol, 3123 pharmacokinetics

beagles, 343 N-Nitrosodimethylamine demethylase

nature of inhibitors, 3378

regulation liver and kidney, 5948

N-Nitroso(2-hydroxypropyl)(2-oxopropyl)amine

N-nitrosobis(2-oxopropyl)amine and metabolism to mutagens, hepatocytes, 4776

Nitrosomethylethylamine

azoxyalkanes and carcinogenesis, 3968 N-Nitrosomethylurea

rat mammary carcinoma model antitumor actions, keoxifene and ta-

moxifen, 4020 N-Nitroso-N-methylurea in vivo transformation

mammary epithelial cells, serum-free in collagen gels, 275

N'-Nitrosonornicotine

formation of hemoglobin adducts, 2626 Nitrosourea

O6-alkylguanine

DNA synthesis, bone marrow hematopoietic precursors, 89

amino acid-linked phase I study, 6782

platinum and formation of blocking lesions, identical DNA sequences, 5092

NMR: see Nuclear magnetic resonance spectroscopy

N-myc

regulation of transcript stability neuroblastoma and retinoblastoma cells, 6310

Nocardia rubra

cell wall skeleton

tumor necrosis factor-like activity, 1785

Nocodazole

inhibitors of mitosis

comparison, 1,2-dihydropyrido[3,4-b]pyrazines, 1621 5'-Noranhydrovinblastine

clinical pharmacokinetics, 5796 Norepinephrine

reactivity perfusion characteristics, renal carci-

noma, 4709 sodium dependency of uptake pheochromocytoma cells, 3920

Novobiocin role for polymerase α

choice of repair sites, xeroderma pigmentosum Group C cells, 2393 Nuclear antigen 1

amplification unit in melanoma cells partial homology, 4485

Nuclear magnetic resonance spectroscopy Adriamycin sensitivity markers

mammary adenocarcinomas, 3396 dietary fat metabolism mammary tumor metabolism, 5631

levels of high energy phosphates human lung cancer cell lines, 3357

mammary tumor response hyperthermia, radiotherapy, 6467 monoclonal antibodies Lym-1 and

Lvm-2 reaction with B-cells, immunotherapeutic potential, 830

phospholipid metabolites Friend leukemia cells, 6481

Nucleic acid

synthesis inhibitory effects, N-hydroxy-N'-aminoguanidine derivatives, 975

Nucleolar antigen

M, 40,000 identification, partial characterization, M. 105,000

partial characterization, cell proliferation, 6329

p145 expression HL-60 cells, 586

Nucleolar protein B23 translocation

doxorubicin treatment, tumor cells, 3798

Nucleophiles

β-propiolactone-induced mutagenesis inhibition, sodium thiosulfate, 4351

Nucleoprotein antigen tumor-associated

viral oncogenes, mink lung cells, 2284 Nucleosides

adenosine

dialdehyde analogues and, neuroblastoma, 3650 effect of ischemia

liver and hepatoma 3924A, 3092

Nucleotides imbalance

myeloid leukemia cells, HL-60 cells, 1841 Null cells

LAK cells

separation and functional studies, 4366

Nutrition

bone marrow transplant recipients, 3309 doxorubicin-induced host toxicity tumor regression, insulin impact, 4318

Occupational risks

men in Sweden bladder cancer, 6763

liver cancer, registry-based analysis, 287

Ochratoxin A

selective immunosuppression natural killer cell activity, 2259

Ocular neoplasms

induction by nickel subsulfide Japanese common newt, 5213 1-Oleoyl-2-acetylglycerol phorbol ester and effect on protein kinase activity, U937 cells, 3344

Olfactory mucosa

uptake and specific binding 2,3,7,8-tetrachlorodibenzo-p-dioxin, 4150

Oligodendrogliomas

distribution of somatostatin receptors. 5758

Oltipraz

mechanism of protection aflatoxin tumorigenicity, 4271

Oncogenes

adenovirus-transformed cells isolation of resistant variants, methylglyoxal bis(guanylhydrazone), 1339

application of molecular biology meeting report, 3032

autocrine regulation

tumor growth, 5330 cancer at the cellular level, 3337

carcinogenesis research enhanced expression, stomach adeno-

carcinomas, 1413 human tissues and cells, 1

c-erbB-2 multiple copies, breast cancer spread,

c-H-ras

BK virus early region, malignant subcutaneous sarcoma, 6671

c-myc: see c-myc

expression of retroviral sequences and rat liver tumors, diethylnitrosamine-induced, 3421

formation of blocking lesions nitrosourea and platinum, identical DNA sequences, 5092

HL-60-1E3

novel phorbol diester-resistant cell line, 1319 H-ras

activated to thymine transversion, stomach cancer, 3195

DNA methylation, transforming activity, 75

expression, diploid human fibroblasts,

natural killer cell regulation, implantation and early lung growth, 4801 p21 expression modification, colon tu-

mor cells, 2826 protease inhibitors, NIH3T3 cells, 3159

isolation method

production, recombinant rat viruses, 5908

K-ras

activation in lung tumor, tetranitromethane, 3212

MHC class I antigens, fibrosarcoma tumor, 2553

protooncogene expression, thyroid hormone induction, 3052

multistep transformation C3H 10T1/2 cells, 4125

neoplastic transformation G2 chromatid radiosensitivity, keratinocytes, 1390

N-myc

consistent copy number, neuroblastoma, 4248

DNA amplification, neuroblastoma xenografts, 3291

N-myc and c-src

development, fetal human brain, 2931

tumorigenicity induction, human cell line, 3235

ras

invasion and metastasis, BW5147 Tcell lymphoma, 754

p21 prognostic significance, breast cancer, 5290

tumorigenicity, liver epithelial cells, 4116

type IV collagenolytic protease, metastatic potential, 1523

sister chromatid exchange

increased fragile sites, young cigarette smokers, 6278

suppression of tropomyosin synthesis transforming growth factor-α, 4493 transformation

lack of intercellular communication, BALB/c 3T3 cells, 5658

tumor cell instability

diversification, progression to metastatic phenotype, 1473

v-fps

modifications of tumor histology, point mutations, 6341

viral

antigenic nucleoproteins, mink lung cells, 2284

v-ras

estrogen-independent tumorigenicity, breast cancer cells, 5733

estrogen receptor and 17-α-iodovinyl 11-β-methoxyestradiol, breast cancer, 2945

v-sis

Simian sarcoma virus-transformed cells, production of TGF, 1582

V-src

amplification and tumorigenic phenotype, embryo cell line, 4663

Oncogenesis

mammary tumor virus-mediated DIM series, BALB/c preneoplasms, 5707

ribosomal RNA

methylation, cell differentiation, 169

Oncornavirus

inactivation factor

lipoproteins, murine leukemia viruses, 667

Organoids

colon carcinoma cell line spontaneous differentiation, crypt-like structures, 2683

Ornithine decarboxylase

anthralin-induced

inhibition by retinoids, skin tumor formation, 6210

biochemical marker

excretion, decarboxylated-S-adenosylmethionine, 890

c-myb expression

normal and neoplastic colonic mucosa, 5266

diethyldithiocarbamate

inhibition, multistage skin tumor promotion, 6302

α-difluoromethylornithine inhibition Friend erythroleukemia cells, 2638 effects of cigarette smoke condensate bronchial epithelial cells, 2045

effects of epidermal growth factor normal and malignant urothelium, 2230

inhibition of 12-O-tetradecanoylphorbol-13-acetate

skin, ascorbic acid and ascorbyl palmitate, 6633

inhibitor of α-difluoromethylornithine changes in glutathione content, 9L cells. 5270

regulation of gene expression epidermis, two-stage tumorigenesis, 1221

skin carcinogenesis

combined treatments, selenium/glutathione/vitamin E, 477

skin tumor promotion

arachidonic acid metabolism, SEN-CAR and NMRI mice, 3174

systemic inhibition 1α-hydroxyvitamin D₃-treated ani-

mals, 5031 transferrin as growth factor

bladder carcinoma cells, 4560 Osteopetrosis

synthesis of viral DNA macrophage accessory cell dysfunction, 6033

Osteosarcoma

c-myc amplification and expression, 3808

growth inhibition

human interferon-α, dose and tumor differentiation, 258

G_{D2}-specific monoclonal antibody localization, 5377

Osteosarcoma cells

characterization

osteoblastic properties, 4961 phorbol ester-treated

protein kinase C, redistribution and loss, 2243

Ovarian cancer cells

cis-diamminedichloroplatinum(II) evaluation of platinum analogues, 414

Ovarian follicles development

effects of ionizing radiation, ethylamide, 5005

Ovarian neoplasms

advanced

use of DNA image cytometry, 3938 analogy

potent immunosuppressant, fetal haptoglobin, 5120

ascites

effect of tranexamic acid, 592

cancer antigen CA-125

monoclonal antibody, lung cancer cells, 6335

circadian gating of S phase, 6267 clinical significance of neopterin, 4977 epithelial

intraperitoneal xenografts, 2662 first and second generation Americans,

human

nude mouse model, antitumor activity of immunotoxin, 1407

new class of anticancer drugs regulation, intracellular pH, 1497 therapeutic potential tumor necrosis factor- α , γ -interferon, 4755

xenografts

localization, monoclonal antibody,

Ovariectomy

regression of mammary tumors β-glucuronidase, 3980

Ovary

adjuvant chemotherapy tamoxifen, breast cancer, 624

M5076 reticulosarcoma thromboxane synthesis, prostaglandin, 988

toxicity

cyclophosphamide, irradiation, 2340

Ovary cells Chinese hamster

bleomycin-sensitive, isolation and characterization, 1588

characterization, 1588 chromosome damage localization, calcium chromate, 2142

clastogenicity, α-naphthoflavone, 3662 cross-sensitivity, topoisomerase II in-

hibitors, 1560 cysteamine-induced oxidative stress, thermotolerance, 2268

DNA cross-linking, glutathione Stransferase, 6022

hyperthermia, mitomycin C resistance, 1308

induced chromosome damage, hyperthermia and metabolic inhibitors, 3584

linkage of amplified genes, multidrugresistant cells, 2875

quinoneimines and quinonediimines, cytotoxicity, 2363

sensitization to heat shock, α -difluoromethylornithine, 816

thermotolerance induction, cycloheximide or puromycin, 5960

topoisomerase II content, antineoplastic action, 3973

TPA-induced translocation, protein kinase C, 2892

Oxazaphosphorines

sensitivity

aldehyde dehydrogenase inhibitors, progenitor cells, 3180

Oxygen

avarol-induced DNA strand breakage Friend erythroleukemia cells, 6565 dependence

misonidazole binding, rodent and human tumors, 5367

free radical-generating chemotherapeutic agents adjunctive use of ethiofos, 5411

generation of superoxide alveolar macrophages, asbestiform,

1681
melphalan antitumor activity
enhancement, fluosol-DA, 5036

radical generation chemiluminescence, Walker carcino-

sarcoma cells, 4771

role of hypoxia anticancer drug-induced cytotoxicity, Ehrlich ascites cells, 2407

tumor hypoxia

photodynamic treatment, 3110 Oxygen consumption

blood flow and tissue oxygenation human breast cancer xenografts, 3496 P

PAH: see Hydrocarbons, aromatic

Palmitoyl carnitine

inhibition epidermal growth factor, pancreatic

acini, 1805 modulation of protein kinase C activation, 6357

Palytoxin

heterologous regulation

epidermal growth factor receptor, 4618

Pancreas

cancer antigens

monoclonal antibodies, 1367

carcinogenesis

plasma cholecystokinin, dietary fat and soybean protein, 1333

early stages of carcinogenesis effects, bombesin and caerulein, 3273

U.S.-Japan Cooperative Cancer Research Program Conference, 922 Pancreatic acini

inhibition of epidermal growth factor palmitoyl carnitine, 1805

Pancreatic neoplasms

carbohydrate antigen 19-9 relationship to Lewis antigens, 5501

first and second generation Americans, 5771

immune function

multiple infusions, monoclonal antibody 17.1A, 5238

schedule dependence

α-difluoromethylornithine, cis-diamminedichloroplatinum(II), 2247

Papilloma regressed

resumption of promotion, skin tumorigenesis, 1947

simple hyperplasia and, butylated hydroxvanisole, 5171

skin tumor promotion chrysarobin, 3783

terminal differentiation-resistant epidermal cells

two-stage carcinogenesis, 1935

Papillomavirus

detection of DNA

invasive carcinomas, cervix, 649

new cell lines

squamous carcinomas, uterine cervix, 4947

Papillomavirus type 9

amplification unit in melanoma cells partial homology, 4485

Parabactin

cell cycle synchronization L1210 cells, 6010

embedded prostate biopsy specimens survival study, DNA flow cytometry, 1973

Parenchyma

embryonal carcinoma cell migration nerve growth factor stimulation, 6324

Particulates 4 8 1

generation of superoxide alveolar macrophages, asbestiform,

1681 Pathogens

retroviruses, 1199

PC12 cells

tamoxifen

calcium channel antagonists, tamoxifen. 70

Peanut lectin

suppressor T-cell differentiation 12-O-tetradecanoylphorbol-13-acetate,

Pentagastrin

gastrin receptor regulation colon tumor growth, proglumide, 5000

Perfluorochemical emulsion

blood exchange

brain tumor, cerebral blood flow, 3296 Perfusion

characteristics

norepinephrine reactivity, renal carcinoma, 4709

limbs

cytostatics dosimetry, blood volume determination, 639

Peritoneal carcinomatosis

abdominal cavity transfer

fate, y-interferon-activated blood monocytes, 6100

Peritoneal cells

enhanced activity

aclacinomycin administration, 3477

Peritoneal neoplasms

intracavitary therapy immunotoxins, transferrin receptor,

6639

radiolocalization

intravenous antibody administration, 6528

Peroxisome proliferators

oxidative and conjugative enzymes primary and secondary tumors, liver, 460

Peroxisomes

role of fatty acyl coenzyme A oxidase efflux of oxidized glutathione, nafenopin-treated liver, 4795

Perspectives in Cancer Research

appropriate breast cancer paradigm, 339 carcinogenesis research

human tissues and cells, 1 genetics in cancer predisposition, 5518

heat shock proteins thermotolerance, other cellular proc-

esses, 5249 heterogeneous DNA damage and repair

mammalian genome, 6426 induction of transformed cells

terminal differentiation, modulated

gene expression, 659 membrane lipid modification, 4529

origin of colon cancer, 4237 retroviruses

carcinogens, pathogens, 1199 tumor cell instability

diversification, progression to metastatic phenotype, 1473

Pertussis toxin

inhibition of lymphoma invasion liver metastasis formation, 5439

Petroleum products

multiple myeloma case-control study of whites, 2978

P-glycoprotein

Adriamycin-resistant breast cancer cells isolation, amplified and overexpressed DNA sequences, 5141

expression in breast cancer cells, 2103 linkage of amplified genes

multidrug resistance, Chinese hamster ovary cells, 2875

multidrug-resistant gene transfer and cloning, 2620

pH

influence of glucose and buffer capacity culture medium, thyroid carcinoma and glioma, 3504

intracellular

regulation of, new anticancer drugs, 1497

origin of colon cancer, 4237

potassium ion concentration urinary bladder carcinogenesis, L-ascorbic acid, 4821

Phagocytes

mononuclear

HLA-D/DR association, colorectal tumor epithelium, 2919 prostaglandin production, induced by hyperthermia, 11

Phagocytosis

macrophage-mediated cytotoxicity liver, 6686

Phenacetin

metabolic activation nasal mucosa, 1449

Phenobarbital

effects

γ-glutamyl transpeptidase histochemistry, liver, 1130

3-methylcholanthrene and

effects, pulmonary cytochrome P-450,

O'-methylguanine-DNA methyltransferhuman fetal tissues, fetal and maternal

factors, 51 12-O-tetradecanoylphorbol-13-acetate

and

DNA synthesis, hepatocytes, 5665

Phenols

plant inhibited PAH-DNA adduct formation, epidermis and lung, 767 inhibition, epidermal monooxygenases, 760

Phenotypes

acetylation

colorectal carcinoma, 1466

alteration

T-cell recruitment, thymus, 2136 diversity

monoclonal antibody, murine B16 melanoma, 1111

netics of multidrug resistance, 5982 inducibility methylcholanthrene-inducible isozyme,

cytochrome P-450, 6079

metastatic secretion, type IV collagenolytic protease, 1523

tumor cell instability, diversification,

modulation epithelial cells, tumorigenesis, 1282

neuroblastoma cell subclones neurotransmitter receptors, myc protooncogenes, 5207

neuroblastoma cell variants collagen biosynthesis, 6505 neuronal

coordinate changes, neuroblastoma cell variants, 1383

preservation of traits

cultured epithelial cells, breast carcinoma-derived, 856 transformation of host cells

primary transfection, tumor cells, 5194

tumorigenic

V-src amplification, embryo cell line, 4663

L-Phenylalanine mustard

antitumor activity mechanism, fluosol-DA 20% with carbogen, 513

chemosensitization

buthionine sulfoximine, 1593 DNA cross-link formation and removal melanoma cells, 2631

DNA damage

immunological detection, monoclonal antibodies, 1542

high-dose chemotherapy

response of L1210 leukemias, 2323 primary resistance to vincristine and reciprocal cross-resistance, rhabdomy-

osarcoma, 6288 sensitivity

function of proliferation, fibroblasts,

transport at blood-brain barrier large neutral amino acid carrier system, 1571

Pheochromocytoma

adjunctive use of ethiofos free radical generation, chemotherapeutic agents, 5411 m-[¹³¹I]iodobenzylguanidine

stability and pharmacokinetics, 6147

production of α subunit guanine nucleotide-binding protein, 5800

Pheochromocytoma cells

uptake of norepinephrine and m-iodobenzylguanidine sodium dependency, 3920

Phorbol dibutyrate

c-myc altered regulation HL-60 differentiation resistant subclone, 4595

protein kinase C

growth state-dependent regulation. normal and transformed cells, 1081

Phorbol diesters

lipase modification, 135 novel resistant cell line HL-60-1E3, 1319

Phorbol esters

absence of protein kinase C nuclei, EL-4 mouse thymoma cells, 3868

binding

fatty acid modification, C3H 10T1/2 cells, 2385 blockage of differentiation

inhibition by bryostatin 1, Friend erythroleukemia cells, 6006 effect on clonal cultures

respiratory epithelial cells, 541 effects on protein kinase C myeloid leukemia cell line, 6363 growth of tumors

Rous sarcoma virus, 3637 induction in transformed cells

adenovirus E1A and E1B genes, 803 induction of virus enzymes

Raji cells, 4407

modulation of protein kinase C activation

palmitoylcarnitine, 6357

phosphorylation

Mr 170,000 to 180,000 glycoprotein, multidrug-resistant tumor cells,

receptors

differentiation, human and goose erythrocytes, 4830

treated osteosarcoma cells

protein kinase C, redistribution and loss, 2243

tumor promoters

blockade by bryostatin 1, primary epidermal cells, 5445

Phorbol-12-myristate-13-acetate

differential phosphorylation events NIH/3T3 cells, 329

effect on tumor growth Rous sarcoma virus, 3637

retinoic acid and effect on glycosyltransferase activity, normal and transformed cells, 787

Phosphates high energy

NMR spectroscopy, lung cancer cell lines, 3357

nuclear magnetic resonance spectroscopy dietary fat modulation, mammary tumor metabolism, 5631

Phosphatidylserine

effect of bisbenzylisoquinoline alkaloids multidrug resistance, KB human cancer cells, 2413

protein kinase C activation

modulation, palmitoylcarnitine, 6357 Phosphofructokinase

control by fructose 2,6-bisphosphate B-cells, B-chronic lymphocytic leukemia cells, 1859

phosphorylation

subunit composition, human gliomas, 5047

Phosphoglycerate kinase recombinant DNA probes

clonal analysis, chromosome X, 4806

skin tumorigenesis resumption of promotion, regressed

papillomas, 1947

Phospholipase

role

genesis, doxorubicin-induced cardiomyopathy, 1239

Phospholipids activation

peritoneal macrophages, ether derivatives, 2008 metabolites

nuclear magnetic resonance, Friend leukemia cells, 6481

N-(Phosphonacetyl)-L-aspartate drug resistance

metastasis, B16 melanoma cell lines, 2604

Phosphoproteins

H-2-linked immune response gene cell proliferation, 193

Phosphoramide mustard

aldehyde dehydrogenase inhibitors sensitivity to oxazaphosphorines, progenitor cells, 3180

human serum albumin accelerated decomposition, 4-hydroxy-

cyclophosphamide, 1505 4-hydroperoxycyclophosphamide and DNA cross-linking and single strand breaks, embryos, 5421

plasma pharmacokinetics

cyclophosphamide, intravenous versus oral administration, 2723

Phosphoribosylpyrophosphate

intracellular folate concentration modulation of 5-fluorouracil cytotoxicity, KB cells, 6444

Phosphorylase

deficient lymphoma cells polyamine synthesis, difluoromethy-lornithine and methylthioadenosine,

1771 Phosphorylation

epidermal differentiation calcium, TPA, 2831

M_r 170,000 to 180,000 glycoprotein multidrug-resistant tumor cells, 2860 phosphofructokinase

subunit composition, human gliomas, 5047

protein

protein kinase C activators, KG-1 and KG-1a cells, 1302

reduction in tumor growth rhodamine and hypoglycemia, Walker 256 carcinoma, 3684

therapeutic selectivity

F-Ara-A, murine leukemia, 700 Photodynamic therapy

tumor hypoxia, 3110

Photofrin II

photosensitizing effects mitochondrial enzymes, 4323

Photosensitization

hematoporphyrin derivative main fractions, biological studies,

structure and stability, 4642 tumor-localizing components, 3439 mitochondrial

kryptocyanine dye, 6580 purpurin derivatives

morphological study, transplantable bladder tumors, 496

utilization

mono-L-aspartyl chlorin, 4681

Phototumorigenesis

inheritance of susceptibility mouse hybrids, 6294

Physalaemin

growth inhibition

small cell lung cancer, 2371 Phytohemagglutinin

inhibition of DNA synthesis antiproliferative response, leukemic cells, 4345

Piroxicam

dose-related inhibition colonic neoplasms, 5340

Pituitary neoplasms

hyperplastic and neoplastic tissues prolactin, growth hormone production, 1087

prolactin release-inhibitory effects progesterone, synthetic progestins, 3667

Ah receptor, 4861 establishment

human trophoblast-like cell line, 3220 modulation of chorionic gonadotropin methotrexate, dibutyryl cyclic adenosine monophosphate and/or actinomycin D, 383

Plasma

accumulation

carcinogenic gluatamic acid pyrolysis products, uremia, 6150 clinical pharmacokinetics

5-fluorouracil, 2203

protein synthesis

experimental cancer, paraneoplastic conditions, 5825

Plasma membrane

cathepsin B-like cysteine proteinase metastatic melanoma variants, 6620 effect of bisbenzylisoquinoline alkaloids multidrug resistance, KB human cancer cells, 2413 enrichment of collagen

enrichment of colla

gelatin degrading activities, human cancer cells, 1608

extraction

organ-specific neoantigens, 1-butanol, 1058

Plasminogen activator

effects of cigarette smoke condensate bronchial epithelial cells, 2045 glucocorticoid modulation mammary carcinoma cell line, 364 glucocorticoid sensitivity ovarian carcinoma cells, 6040 hormonal modulation

prediction, breast tumor responsiveness, 3558

suppression by 2,3,7,8-tetrachlorodibenzo-p-dioxin MCF-7 cells, 6198

tumor development in colon, 4654 urokinase-type

lung and breast carcinomas, 4043

Platelet-derived growth factor

progressional changes malignant glioma line U-343 MGa, 4953

Platelet membrane

role in enhancement tumor cell adhesion, extracellular matrix, 6751

Platelets

activating activity tumor cell lines, cell surface sialylation, 1767

aggregation

effect of tumor cells, pattern of metastasis, 3115

metastatic ability, hybridomas, 4396 thrombin generation, NCG neuroblastoma cell line, 2129

tumor cell-endothelial cell interactions eicosanoid biosynthesis, 2425

Platinum

nitrosourea and formation of block

formation of blocking lesions, identical DNA sequences, 5092

Platinum analogues

cis-diamminedichloroplatinum evaluation, ovarian cancer cell lines, 414

Platinum compound malonate ligand L1210 cells, 4992

Pleural cavity

antitumor activity of macrophages lymphocyte regulation, lung cancer, 5497

Pleurisy

malignant

LAK cells, recombinant IL-2 intrapleural instillations, 2184

PMA: see Phorbol-12-myristate-13-acetate Podophyllotoxin

inhibitors of mitosis

comparison, 1,2-dihydropyrido[3,4-b]pyrazines, 1621

Pollutio

Buffalo River and Detroit River 32P-postlabeling, fish, 6543

Poly(ADP-ribose)

synthesis DNA amplification, 3632

Polyamines

antimetastatic activity

DL-α-difluoromethylornithine, mice, 933

comparison of bis(ethyl) derivatives L1210 leukemia cell growth, 2821 cytotoxicity of N¹,N²-

bis(ethyl)spermidine

lung cancer cell line, 3964 depletion

DNA

DNA cross-linking, 1,3-bis(2-chloroethyl)-1-nitrosourea, 4538 topoisomerase II DNA cleavage, leu-

kemia cells, 6437 effects of progestins

growth in culture, breast cancer, 3066 levels

intravenous α -difluoromethylornithine, transplantable fibrosarcoma, 1836 monoaziridinylputrescine

cytotoxic activity, PC-3 prostatic carcinoma, 3627

natural

effects, uterine estrogen receptors, 1799

synthesis and growth

synergistic inhibition, difluoromethylornithine plus methylthioadenosine, 1771

Polyglutamates

5,8-dideazaisofolic acid mechanism of action, colon carcinoma cells, 5975

Polyglutamylation

methotrexate

L-asparaginase-induced modulation, leukemia L5178Y, 1313

Polymerase of

role in choosing repair sites xeroderma pigmentosum Group C cells, 2393

Polymixin B

macrophage-mediated tumor cytotoxicity induction by interferons, 2804

Polymorphisms

restriction fragment length tumor progression, melanoma, 3995

Polyoma virus

asynchronous DNA replication ultraviolet light, various inhibitors, 4565

Polypeptides

epidermal differentiation calcium, TPA, 2831 expression during hepatocarcinogenesis comparison, Solt-Farber and Reddy models, 2839

mitosis-associated

cell cycle deregulation, hyperplastic and malignant hepatocytes, 210

Polyprenoic acid

synthetic morphological differentiation, neuroblastoma cells, 5433

Polyps

adenomatous

plasminogen activators, colonic tumor development, 4654

Porfiromycin

drug uptake and selective toxicity hypoxic EMT6 cells, 5654

Portal vein

administration of oily anticancer agent reduction, hepatic metastases, 852

Potassium

ion concentration and pH urinary bladder carcinogenesis, L-ascorbic acid, 4821

Prednisolone

Ha-ras p21 expression modification, colon cancer cells, 2826

Prednisone

mitoxantrone and vincristine acute lymphocytic leukemia, chronic myelocytic leukemia, 5234

Pregnancy

diethylnitrosamine tumorigenicity transmission failure, Syrian hamster generations, 5112 transplacental effects

diethylstilbestrol, mammary development, 4508

Presidential Address, 1488

Procarbazine

induced damage to spermatogenesis protection, time dependence, 1344 spermatotoxicity

anticancer activity and, separate mechanisms, 1547

Progenitor cells

antigen expression small cell carcinoma, lung, 6556

hematopoietic aldehyde dehydrogenase inhibitors, oxazaphosphorines, 3180

human hemopoietic

cell growth modulation, β -interferon, 6576

tumor necrosis factor effect chronic myeloid leukemia, 4788

Progesterone

effects of progestins growth in culture, breast cancer, 3066 17β-estradiol and R5020

glucose-6-phosphate dehydrogenase activity, MCF-7 cells, 5119

nuclear receptors quantitation, breast cancer, 1830

prolactin release-inhibitory effects pituitary tumor cells, 3667 receptor

prognostic value, node negative breast cancer, 6126

receptor concentration effect of tamoxifen, advanced breast

carcinoma, 300 prostatic carcinoma, 2645 receptor heterogeneity endocrine response, advanced breast carcinoma, 296

tamoxifen reversal

7,12-dimethylbenzanthracene-induced mammary carcinoma, 5386

mammary carcinoma, 5386
Progesterone-binding cyst protein
breast tumor cytosol, 6189

Progestins

effects on growth in culture breast cancer, 3066 growth inhibition

estrogen-independent progesterone receptors, endometrial cancer cells, 1918

prolactin release-inhibitory effects pituitary tumor cells, 3667

Proglumide

colon tumor growth

gastrin receptor regulation, pentagastrin, 5000

Prolactin

effects of progestins

growth in culture, breast cancer, 3066 growth hormone production and hyperplastic and neoplastic pituitary

tissues, 1087 growth initiator

Nb2 node lymphoma cells, butyrate,

inducible protein expression breast cancer, steroid receptor status,

4160 prognostic significance of receptors

breast cancer, 4724

release

inhibitory effects, progesterone and synthetic progestins, 3667 role of serum

responsiveness of MCF-7 cells, longterm tissue culture, 3509

N¹⁰-Propargyl-5,8-dideazafolate methotrexate

synergistic growth inhibition, hepatoma cells, 5256

β-Propiolactone

induced mutagenesis inhibition, sodium thiosulfate, 4351

Propranolol enhancement of anticarcinogenic effect

enhancement of anticarcinogenic effect tetragastrin, MNNG-induced gastric carcinogenesis, 111

Prostaglandin E₂
combination immunotherapy

synergism, TNF and other systems, 115 metabolism of arachidonic acid

lung cancer cell lines, 3757 nonmetastatic Lewis lung carcinoma

migration, metastatic Lewis lung carcinoma cells, 3679

protein kinase C redistribution and loss osteosarcoma cells, phorbol estertreated, 2243

skin tumor promotion

arachidonic acid metabolism, SEN-CAR and NMRI mice, 3174

Prostaglandin H synthase metabolism and DNA binding 2-naphthylamine, 4007

Prostaglandins
effects on melanoma cells, 3141
production

induction by hyperthermia, peritoneal

exudate macrophages, 11

thromboxane synthesis
M5076 ovarian reticulosarcoma, 988

Prostaglandin synthetase

peroxidase-catalyzed etoposide metabolism binding of intermediates, cellular mac-

romolecules, 5835

benign nodular hyperplasia

subcellular concentrations, calcium/ zinc/magnesium, 323

normal and cancerous

growth factor, Dunning tumor, 188 pathological conditions

DNA hypomethylation, 5274

Prostatic neoplasms DNA topoisomerase II

growth-related elevations, 3246 first and second generation Americans,

5771 flow cytometry

relationship, DNA content to survival,

transplanted adenocarcinomas androgen disposition, 1701 vitamin A intake

elderly men, 2982

Prosthesis

neoplastic lesions

metallic ear tag sites, Wistar rats, 2445

Proteases bacterial

antitumor activity, 563

inhibitors

Bowman-Birk type, binding and internalization, 1602

Bowman-Birk type, cell membrane, 1598

H-ras oncogene transformation, NIH3T3 cells, 3159

Protein

altered leucine metabolism noncachectic sarcoma patients, 4746 androgen-induced

breast cancer cells, 2787 cellular retinoic acid-binding

new benzoic acid derivatives, retinoid activity, 3523

composition on cell surface

alveolar macrophages, smoking, 3072 core

milk mucin, breast cancer monoclonal antibodies, 5476

C-reactive

activation, monocyte tumoricidal activity, 3959

decrease in synthesis

sodium cyanate, P388 leukemia cells,

differentiation-specific

preneoplastic mammary tissues, 4686 DNA-binding

avian acute leukemia viruses, 6586 DNA-protein cross-links

irradiation, Chinese hamster cells, 2032

estrogen-binding

variants, rat mammary tumor, 4287 glucose-regulated

expression of glucose-related gene, C3H 10T½ cells, 6220

heat shock: see Heat shock protein

synthesis

intermediate filament

asbestos-induced mesothelioma, 5461 leptomeningeal extracellular matrix growth and differentiation, glioma,

3515

nuclear cell cycle-related, monoclonal antibodies, 3266

p21

prognostic significance, breast cancer, 5290

p68

proliferation, normal and cancer cells, 1488

plasma

synthesis in experimental cancer, paraneoplastic conditions, 5825 polymer-conjugated neocarzinostatin

polymer-conjugated neocarzinostatii binding and internalization, 3206 S100

cross-reactivity, human and guinea pig melanoma-associated antigen, 4835

surface membrane modification Adriamycin resistance, HL-60 cells, 5080

tyrosine phosphorylation reduction, K-562 cells, 4066

Protein A

immunoglobulin G and correlation, antitumor activity, 2002

Proteinases

membrane

collagen and gelatin degrading, human cancer cells, 1608

thiol

inhibitor, ascitic fluid of sarcoma 180, 5560

Protein carboxylmethyltransferase effect of adenosine analogues neuroblastoma cells, 3656

Protein kinase

characterization of isozymes mammary carcinoma, 2576 cyclic AMP-dependent

defects, mouse fibroblasts, 953 nuclear cyclic AMP-dependent retinoic acid-induced loss, teratocarci-

noma cells, 5831 phosphofructokinase phosphorylation subunit composition, human gliomas, 5047

tyrosine

Philadelphia chromosome cells, chronic myelogenous leukemia,

Protein kinase C

absence in nuclei

EL-4 mouse thymoma cells, 3868 activation modulation, palmitoylcarnitine, 6357

activators protein phosphorylation, KG-1 and

KG-1a cells, 1302 altered levels

human colon carcinomas, 2036 effects of phorbol ester and diacylglycerol derivative

monoblastoid U937 cells, 3344 growth state-dependent regulation

normal and transformed cells, 1081 inhibition of epidermal growth factor pancreatic acini, palmitoyl carnitine,

multidrug resistance phorbol ester receptor, P388 murine leukemic cells, 3460 redistribution and loss

osteosarcoma cells, phorbol estertreated, 2243

subcellular distribution colonic epithelial cells, proliferation, 3434

TPA-induced translocation various cell lines, 2892

Proteoglycans isolation and characterization human nonepithelial tumors, 160

Proteolipids
RNA complex

sera, tumor marker, 6407 Proteolytic factors

production tumor-producing cachexia, host, 5919 Protooncogenes

amplification and expression small cell lung cancer, 6236

c-Ki-ras2 amplification, embryonal carcinomas, 4192

c-Ki-ras gene amplification malignant behavior, embryonal carcinoma cells, 867

c-myb
expression, normal and neoplastic colonic mucosa, 5266

c-myc/c-fos/c-fms expression, acute myelocytic leukemia, 874

c-src expression human skin tumors, 235

differing patterns of expression acute leukemia cells, peripheral blood and bone marrow, 3747

N- and c-myc neurotransmitter receptors, neuroblastoma subclones, 5207

ras overexpression mucus-secreting colon carcinoma cells, 3763

Pseudomonas EGF-toxin conjugate-resistant KB cell

lines, 2961
Pseudouridine
serum

biochemical marker, small cell lung cancer, 6138

8-methoxypsoralen-DNA photoadducts immunological detection, visualiza-

tion, 2451
Purine
DNA lesions

progressive formation, hydroxyureatreated cells, 2755 Puromycin

cycloheximide or thermotolerance induction, Chinese hamster ovary cells, 5960

Purpurin derivatives tumor photosensitizers transplantable bladder tumors, 496

Putrescine
antimetastatic activity
DL-α-diffuoromethylornithine, mice,

comparison of bis(ethyl)polyamine derivatives

L1210 leukemia cell growth, 2821 effect intravenous α-difluoromethylornithine.

transplantable fibrosarcoma, 1836 monoaziridinylputrescine cytotoxic activity, PC-3 prostatic carcinoma, 3627

5-(2-Pyrazinyl)-4-methyl-1,2-dithiol-3thione

mechanism of protection aflatoxin tumorigenicity, 4271 Pyrazoloacridines

selectivity against solid tumors, 4299
Pyrimidines

halogenated radiosensitizers potentiation, carcinoma cells, 5361 phosphorylation of 1-β-D-arabinofuranosylcytosine

uridine triphosphate, Ehrlich ascites tumor cells, 1820

Pyrimidine triphosphates

31P nuclear magnetic resonance spectrum
characterization, melanoma, 5065

in vivo nutrient uptake head and neck cancer, 5230

Q

Quercetin
2-cyanocinnamic acid and
enhanced hyperthermic cytotoxicity,

L929 cells, 3341 inhibited PAH-DNA adduct formation epidermis, lung, 767

Quinazolines
5,8-dideazaisofolic acid
mechanism of action, colon carcinoma

cells, 5975

Quinocarmycin citrate
antitumor activity, 1516

Quinoneimines quinonediimines and cytotoxicity, 2363

Quinone reductase effects of retinoids benzo(a)pyrene binding, tissue DNA, 5014

R

RA 233 effects on mammary tumor cell clones, 1870

Radiation cyclophosphamide alone or in combination

ovarian toxicity, 2340 determinants of complete remission induction and maintenance, small cell lung cancer, 2733

diaziquone sister chromatid exchange, anaplastic glioma, 631

ethylamide treatment development, ovarian follicles, 5005 excimer laser

mutagenicity, mammalian cells, 410 impaired glutathione biosynthesis human ataxia-telangiectasia cells, 4576

in vitro sensitivity human tumor surgical specimens, 106 ionizing

initiator, tumor incidence, 6692 leukemia virus-induced leukemic and preleukemic cells
clonal analysis, 6590
potentiation of cytotoxicity
recombinant interferons, 4338
response and thermal radiosensitization
bone marrow progenitors, 1538
sensitivity of tumors

sensitivity of tumors increase in pO₂, fluosol-DA and carbogen, 442 thymic lymphomagenesis

prelymphoma cells, 3469 yield of DNA-protein cross-links Chinese hamster cells, 2032

γ-Radiation

carcinogen-altered mammary epithelium proliferation, 4425 Radiocurability

tumor growth macrophage content, sarcomas and carcinomas, 1069

Radiography quantitative neutron capture biodistribution, boron-containing compounds, 5451

Radioimmunoassay monoclonal antibodies Lym-1 and Lym-2 reaction with B-cells, immunotherapeutic potential, 830

Radioimmunotherapy
GW-39 human colonic tumor xenograft
monoclonal antibody, carcinoembryonic antigen, 5672

90Y-labeled monoclonal antibody erythroleukemic mice, 1905 Radioiodine

localization monoclonal antibody, ovarian carcinoma, 4719

Radiolocalization double-tracer whole-body autoradiography xenografted cancer model, cell viability, 2177

intravenous antibody administration intraperitoneal tumors, 6528

Radiosensitivity
halogenated pyrimidine
potentiation, carcinoma cells, 5361
MTT assay
evaluation, tetrazolium, 943

Radiotherapy hyperthermia and mammary tumor response, NMR spectroscopy, 6467

Raji cells induction of virus enzymes phorbol esters, N-butyrate, 4407 Rana catesbeiana

lectin characterization tumor cell agglutination, 4877 Rapenton

effects on mammary tumor cell clones, 1870 Rat-1 cells

Rat-2 cells and inherent tumorigenic and metastatic properties, 6384 Receptors

Ah
human placenta, 4861
application of molecular biology
meeting report, 3032
asialoglycoprotein

Hodgkin's cell lectin, 2461 cellular

tumor-killing factor, analysis, 42 cytosol

structure-activity relationship, 2,3,7,8tetrachlorodibenzo-p-dioxin, 5108

1,25-dihydroxyvitamin D₃ immunocytochemical detection, breast cancer, 6793

epidermal growth factor

characterization, human meningioma, 2172

heterologous regulation, palytoxin, 4618

lack of expression, small cell lung carcinoma, 2668

monoclonal antibody, glioma xenografts, 3847

monoclonal antibody, tumor growth modulation, 3692

retinoic acid, Simian virus 40-3T3 variant, 4995

toxin conjugate-resistant KB cell lines, 2961

transforming growth factor- β , breast carcinoma, 4260 tumor-associated antigens, carcinoma, 2531

estrogen

B

binding to nuclei, mammary tissues,

breast tumor cytosol, progesteronebinding cyst protein, 6189 concentration regulation, prostatic carcinoma, 2645

detection by monoclonal antibody, breast cancer, 6572

distribution, normal nonlactating breast tissue, 5748 effects of polyamine, uterus, 1799

17-α-iodovinyl 11-β-methoxyestradiol interaction, v-ras transfection, 2945 MCF-7 cell proliferation, 4355

monoclonal antibodies, breast cancer, 2508

mRNA, breast cancer, 6653

pharmacological concentrations, cell cycle kinetics, 5323 presurgical status determination, 6118

fibronectin relationship, tumor cell-cell interaction, 5127

gastrin

colon tumor growth, pentagastrin and proglumide, 5000

glucocorticoid host liver, hepatomas, 3742

sensitivity, ovarian carcinoma cells, 6040

high affinity

transforming growth factor-β, embryonal carcinoma cells, 4386 IL-2

in vivo administration, cancer patients, 2188 insulin

regulation, tumor cells, 6500 β-interferon

growth related variation, 4582 laminin

role in tumor cell migration, 5691 low density lipoprotein

stimulation, conditioned medium, 4630

neurotransmitter

myc protooncogenes and, neuroblastoma subclones, 5207

nuclear estrogen

quantitation, breast cancer, 1830 phorbol ester

differentiation, human and goose erythrocytes, 4830

progesterone

breast tumor cytosol, progesteronebinding cyst protein, 6189 progestin growth inhibition, endometrial cancer cells, 1918

progestin

concentration regulation, prostatic carcinoma, 2645

prolactin

prognostic significance, breast cancer, 4724

protease inhibitors

Bowman-Birk type, binding and internalization, 1602

Bowman-Birk type, cell membrane, 1598

somatostatin

distribution, central nervous system tumors, 5758

steroid

cytotoxicity, breast cancer cells, 1441 genital tract changes, diethylstilbestrol, 4165

prognostic value, node negative primary breast cancer, 6126 prolactin-inducible protein, breast can-

cer. 4160 transferrin

blocked function, monoclonal antibodies, 747

 α -difluoromethylornithine inhibition, Friend erythroleukemia cells, 2638 immunotoxin, human ovarian cancer,

immunotoxins, syngeneic peritoneal tumors, 6639

intraperitoneal immunotoxins, 4266 uptake of gallium-67, leukemic cells, 3929

Red blood cells

amino acid compartmentation Lewis lung carcinoma, 5644 effect of glucose and galactose normal and neoplastic tissues, 371

Refractory anemia nonleukemic death

2196

factors, 3599 probability of development acute nonlymphoblastic leukemia,

Renal cell neoplasms characterization of two cell lines, 3856

Respiratory burst stimulation

peritoneal inflammatory neutrophils, tumor cell conjugation, 2211

Respiratory tract epithelial cells

effect of phorbol esters, clonal cultures, 541

Restriction endonuclease

inhibition

O6-alkylguanine-DNA alkyltransferase measurement, 6229

Reticulosarcoma liver metastases

treatment and prophylaxis, 6462 M5076 ovarian

thromboxane synthesis, prostaglandin, 988

Retinoblastoma

primary

chromosome 13, partial homozygosity, 4189

Retinoblastoma cells

N-myc transcript stability, 6310 Retinoic acid: see also Vitamin A

control of HL-60 cell differentiation after precommitment, 129 dibutyryl cyclic adenosine monophos-

phate and differential effects, neuroblastoma

cells, 2417 N,N-dimethylformamide and TGF- β induced mitogenesis, embryo

fibroblasts, 4278 differential responsiveness SV40-transformed BALB/c 3T3 cells,

embryonal carcinoma F9 cells

organ colonization pattern, 3791 growth inhibition

antibodies, melanoma cells, 3152 induced monocytic differentiation transplantable HL-60 tumor, 1434

inhibition of skin tumor promotion duration of treatment, 5097

loss of nuclear cyclic AMP-dependent protein kinase teratocarcinoma cells, 5831

phorbol-12-myristate-13-acetate and effect on glycosyltransferase activity, normal and transformed cells, 787 retinol and

binding and metabolism, 10T1/2 cells, 5637

small cell lung cancer cell line reversible squamous cell characteristics, 3533

13-cis-Retinoic acid

dietary retinyl palmitate or effects, promotion of skin tumors, 967 effects on metabolizing enzymes benzo(a)pyrene binding, tissue DNA, 5014

Retinoids

chemoprevention

rationale and strategies, cancer in humans, 3012

dietary or topical exposure promotion, skin tumor induction, 5989

effects on metabolizing enzymes benzo(a)pyrene binding, tissue DNA, 5014

inhibition of epidermal ornithine decarboxylase

skin tumor promotion, anthralin, 6210 new benzoic acid derivatives binding, 3523

retinoic acid and

binding and metabolism, 10T1/2 cells, 5637

vitamin A uptake in elderly men prostate cancer, 2982

Retinyl acetate

effects on metabolizing enzymes benzo(a)pyrene binding, tissue DNA, Retinyl palmitate

dietary

13-cis-retinoic acid or, promotion of skin tumors, 967

Retroviruses

carcinogens and pathogens, 1199
endogenous related sequences
factors influencing expression, liver,
795

expression

oncogenes, liver tumors, 3421 feline leukemia virus-infected cats model for AIDS, 3190 formation of blocking lesions

nitrosourea and platinum, identical DNA sequences, 5092 persistent synthesis of viral DNA macrophage accessory cell dysfunc-

tion, osteopetrosis, 6033 Rhabdomyosarcoma

childhood

cell lines from xenografts, 4501 4-hydroperoxycyclophosphamide intrathecal administration, 5932 reciprocal cross-resistance

primary resistance, vincristine and Lphenylalanine mustard, 6288

Rheumatoid factors

anti-mouse immunoglobulin reactivity, 4520

Rhodamine

hypoglycemia and

reduction of growth rate, Walker 256 carcinoma, 3684

Rhodamine 123

basis for selective cytotoxicity, 4361

Ribonucleotide reductase effect of adenosine analogues

neuroblastoma cells, 3656 inhibitory effects

N-hydroxy-N'-aminoguanidine derivatives, 975

Ribosomal-inhibiting protein

monoclonal antimelanoma antibody ricin A chain immunotoxin, toxicity, 1377

Ricin

A and B chain antibody conjugates selective killing, bladder cancer cells, 419

Diain A

anti-Thy 1.1 antibody effect, chemical deglycosylation, 947 antitumor activity

intraperitoneal immunotoxins, malignant mesothelioma, 4266 nude mouse model, human ovarian

cancer, 1407
comparisons with other A chain conju-

gates melanoma-associated antigen, 3169

cytotoxic immunotoxin breast cancer cells, 730 monoclonal antibody

biodistribution, hepatic blocking

monoclonal antibody conjugates inhibition, growth of tumor xenografts, 5042

monoclonal antimelanoma antibody immunotoxin toxicity, 1377 malignant melanoma, 1717

transferrin receptor

intracavitary therapy, syngeneic

peritoneal tumors, 6639

RNA

c-myc oncogene transformation of C3H T10½ cells, 3643

endogenous retrovirus-related sequences factors influencing expression, liver, 795

expression of N-myc and c-src development, fetal human brain, 2931

messenger bcr-abl fusion gene expression, α -inter-

feron, 6629 class π subunit, glutathione-S-transferase, 5626

c-myb expression, normal and neoplastic colonic mucosa, 5266

c-myc expression, antineoplastic drugs, 4544

estrogen receptor, breast cancer, 6653 glyceraldehyde-3-phosphate dehydrogenase, lung cancer, 5616

inhibited transcriptional activity, emyb peptide, 1052

N-myc transcript stability, neuronal tumors, 6310

transforming growth factors α and β , epidermal growth factor receptor, 707

transforming growth factor-β, mesothelial and mesothelioma cells, 6180 uracil-DNA glycosylase, biosynthesis, 123

proteolipid complex sera, tumor marker, 6407

ribosomal methylation, factor in cell differentiation, 169

transfer

promotion by 7-methylguanine, Chinese hamster embryo cells, 2440 serum pseudouridine, marker for small cell lung cancer, 6138

Rosenthal Foundation Award Lecture, 5810 Rous sarcoma virus

tumor growth

effect of phorbol ester, 3637

S

S180

sarcoma cell line tumor necrosis factor-α, indirect mode, antitumor activity, 3707

Safrale

structure-activity studies hepatocarcinogenesis, 2275

Saitama

patients from

chromos donormalities, malignant lympho. 4, 6767

Salivary gland neoplasms 5-azacytidine induction

myoepithelial cells, acinar cells, 4453

Salmonella typhimurium mutagenesis assay

predictive capability, carcinogenicity of mutagens, 1287

mutagenicity experiments agroclavines, 1811

Sapporo Cancer Seminar Epstein-Barr virus

HTLV-I, HTLV-III, 918

Sarcoma

autoimmune nature of cancer, 927

chemically induced

shared tumor-specific antigen, 5074

delayed

adaptation to growth in culture, 486 effect of tumor cells

platelet aggregation, pattern of metastasis, 3115

Ewing

intermediate filaments, characterization, 1170

neuroectoderm-associated antigens, 183

malignant subcutaneous

BK virus early region, c-H-ras oncogene, 6671

murine

macrophage content, 1069

noncachectic

altered leucine metabolism, 4746 osteogenic

blood-brain barrier disruption, methotrexate, 6225

localization, G_{D2}-specific monoclonal antibody, 5377

thiol proteinase inhibitor ascitic fluid, 5560

uterine

flow cytometric analysis, 2814

Sarcoma, reticulum cell chemotherapy of lymphomas, 5810

detection of transforming gene genetically linked and host-dependent neoplasia, 523

Sarcoma virus

Kirsten murine

modification of steroidogenesis, adrenocortical cells, 1325

modification of tumor histology point mutations, v-fps oncogene, 6341 Simian transformed cells

production, transforming growth factors, 1582

Schwann cells

neuroblastoma cell variants collagen biosynthesis, 6505

Selenium

chemoprevention colonic carcinogenesis, 5901

glutathione and vitamin E glutathione peroxidase activity, skin carcinogenesis, 477

Semicarbazide

nature of N-nitrosodimethylamine demethylase inhibitors 3378

inhibitors, 3378 Seminoma tissue

levels of alkaline phosphatase isozymes, 2543

Serum

cell surface antigen gastrointestinal tumors, 3873

expression of unusual isozyme lactate dehydrogenase, carcinoembryonic antigen, 6156

factors

estrogen conjugates, estrogenic trophic effect on MCF-7 cells, 5883

fetal calf

cultivation, fibrosarcoma KMT-17, 1815

role in prolactin responsiveness MCF-7 cells, long-term tissue culture, 3509

Serum albumin

conjugate

methotrexate with anti-MM46 monoclonal antibody, cytotoxicity, 1076

Serum α-1 proteinase

inhibitor in advanced cancer mass variants, functionally inert forms, 1179

Severe combined immunodeficiency lung tumor growth, 2456

Sex differences

inhibited melanoma growth estrogen, 453

Sex hormone-binding globulin breast cancer risk assessment bioavailability, estradiol as marker,

Shanghai

decreased risk of lung cancer cotton textile industry, 5777

carbohydrate moieties carcinoembryonic antigens, structural studies, 3451

Sialoadenectomy

epidermal growth factor implantation and growth, mammary tumor, 4651

Siglylation

cell surface

ŧ

human tumor cells, platelet-activating activity, 1767

presence of granulocyte sialyltransferase normal leukocytes, chronic myelogenous leukemia, 2763

Simian virus 40 characterization

immortalization, uroepithelial cells, 6066

mitogenic and antimitogenic TGF tumorigenesis, 4086

poly(ADP-ribose) synthesis DNA amplification, 3632

transformed BALB/c 3T3 cells differential responsiveness, retinoic acid, 4995

transformed cells

entrance into Go phase, 6028

transformed 3T3 cells

mevalonic acid products, mediators of cell proliferation, 4825

Sister chromatid exchange

cell cycle dependence DNA topoisomerase II inhibitors, V79 cells, 206

effect of caffeine

BCNU-treated brain tumor cells, 5052 increased fragile sites

bone marrow, young cigarette smokers, 6278

induction

radiation plus diaziquone, anaplastic gliomas, 631

Skin

carcinogenesis

combined treatments, selenium/glutathione/vitamin E, 477 inheritance of susceptibility, mouse hy-

brids, 6294 fibroblasts

> Li-Fraumeni familial cancer syndrome, 4229

inhibition of multistage tumor promo-

diethyldithiocarbamate, 6302

inhibition of 12-O-tetradecanoylphorbol-13-acetate induction ornithine decarboxylase activity, ascor-

bic acid, 6633

inhibition of tumor promotion duration of treatment, retinoic acid, 5097

ionizing radiation

initiator, tumor incidence, 6692 metabolic activation of methylchrysenes tumorigenic dihydrodiols, 3613

monooxygenase inhibition plant phenols, 760

primary epidermal cells bryostatin 1 blockade, phorbol ester tumor promoters, 5445

terminal differentiation-resistant epidermal cells

two-stage carcinogenesis, 1935

tumorigenesis

resumption of promotion, regressed papillomas, 1947

tumorigenicity

bay region methyl group, newborn mice, 5310

tumorigenic metabolites benzo[j]fluoranthene, 6166

tumor promotion arachidonic acid metabolism, SEN-CAR and NMRI mice, 3174

Skin cells

action spectra cytotoxicity, 1825

Skin neoplasms

anthralin-promoted formation inhibition by retinoids, ornithine decarboxylase, 6210

expression c-src protooncogene, 235

promotion

chrysarobin, 3783

dietary retinyl palmitate, 13-cis-retinoic acid, 967 retinoids, dietary or topical exposure,

5989 TPA-induced xanthine dehydrogenase

conversion, xanthine oxidase, 1775

polymer-conjugated neocarzinostatin binding and internalization, 3206

concentrative uridine transport splenocytes, 2614

norepinephrine and m-iodobenzylguanidine uptake pheochromocytoma cells, 3920

transmembrane signal

DNA strand break rejoining, proliferating lymphocytes, 5397

transport

colonic carcinogenesis, mouse model, 4646

Sodium butyrate

depletion from culture Friend erythroleukemia cells, differentiation, 378

Ha-ras p21 expression

modification, colon cancer cells, 2826

Sodium channel

enhancement of current

multiple resistance, leukemia cells,

Sodium chloride

effect of concentration on Adriamycin

cell killing, DNA damage in V79 cells, 1853

Sodium cyanate

decrease of protein synthesis P388 leukemia cells, 5102

Sodium L-ascorbate

promoting effects

strain and diet differences, urinary bladder carcinogenesis, 3492

Sodium thiosulfate

efficacy of two-route chemotherapy angiotensin (II), limb tumor, 3618 inhibition

β-propiolactone-induced mutagenesis, 4351

Solvents

differentiation HL-60 cells, 140

Somatic cells

role of enzymes, daunorubicin cytotoxicity, 1924

Somatostatin

receptor distribution

central nervous system tumors, 5758 receptors

endocrine tumors, 551

Somatostatin analogues direct inhibitory effects

growth, human breast cancer cells, 1566

Soybean protein

dietary fat and

pancreatic carcinogenesis, plasma cholecystokinin, 1333

Spergualin

antitumor activity

CTL involvement, L1210 cells, 3062

Spermatogenesis

procarbazine-induced damage protection, time dependence, 1344

Spermatotoxicity

procarbazine anticancer activity and, separate mechanisms, 1547

Spermidine

effect

intravenous α-difluoromethylornithine, transplantable fibrosarcoma, 1836 effects of progestins

growth in culture, breast cancer, 3066

Spermidine and spermine

antimetastatic activity

DL-α-difluoromethylornithine, mice,

comparison of bis(ethyl)polyamine deriv-

L1210 leukemia cell growth, 2821

antigen binding fragments

monoclonal antibodies, penetration and binding, 1627

influence of glucose and buffer capacity culture medium, thyroid carcinoma and glioma, 3504

N-(2-chloroethyl)-N'-cyclohexyl-N-nitrosourea, nitrofuran, 5303

Spiromustine

phase I trial, 4213

Spiroplatin

comparative pharmacokinetics mice and humans, 6297

monoclonal antibodies kinetics in humans, 3328 progression in hepatocarcinogenesis, 4699

T-cell recruitment phenotype change, tumor-bearing

state, 2136 Splenic cells

concentrative uridine transport, 2614 cytotoxicity of polymorphonuclear leukocytes streptococcal preparation, 6204

suppression of humoral immune response

benzo(a)pyrene, α-naphthoflavone, 2317

Stem cell growth factor

hematopoietic survival monoclonal antibody, myeloid leukemia cell line, 5025

Stem cells

contact insensitivity fetal kidney epithelial cells, carcinoma cell line, 1634

effect of 1-8-D-arabinofuranosylcytosine anthracyclines, myeloid leukemia, 2376

hybridization studies

albumin and α-fetoprotein, neoplastic transformation in liver, 5469 survival of colony forming cells

4-hydroperoxycyclophosphamide treatment, bone marrow cells, 6371

Steno's glands molecular dosimetry of DNA adduct for-

4-(N-methyl-N-nitrosamino)-1-(3-pyridyl)-1-butanone, neoplasia induction, 6058

Steroidogenesis modification

adrenocortical cells, Kirsten murine sarcoma virus, 1325

Steroids

characterization of keratins cervical epithelial cells, 6678 C₁₉-radiosteroid disposition transplanted prostatic adenocarcinomas, 1701

differential effects

parameters of cell growth, 2937

fecal neutral

patients with polyps or cancer, large bowel, 305

mammary tumors

ovariectomy-induced regression, β-glucuronidase, 3980

origin of colon cancer, 4237 receptors

prognostic value, node negative primary breast cancer, 6126

1α-hydroxyvitamin D3-treated animals systemic inhibition, ornithine decarboxylase, 5031

U.S.-Japan Cooperative Cancer Research Program Conference, 922

Stomach neoplasms activated c-Ha-ras oncogene thymine transversion, 3195 first and second generation Americans,

5771 Streptococcal preparation cytotoxicity

polymorphonuclear leukocytes, 6204

Streptomyces platen is effects of trichostatins

differentiation, erythroleukemia cells, 3688

Streptozotocin

induced diabetes

stimulation of tumor growth, 1756

Stromal cells

interaction with HL-60 myeloid leukemic cell line, 2879

Styrene-maleic acid copolymer conjugation to neocarzinostatin

binding and internalization, 3206 S-4-Succinimidyloxycarbonyl-α-methyl ben-zyl thiosulfate

immunotoxin synthesis

new coupling agents, hindered disulfide bond, 5924

Sucrase-isomaltase

markers

A and H blood group antigens, 1426

Sulfamethazine acetylation phenotype

colorectal carcinoma, 1466

Sunlight

cytotoxicity

epidermal keratinocytes, 1825

Superoxide dismutas

avarol-induced DNA strand breakage Friend erythroleukemia cells, 6565 generation of superoxide

alveolar macrophages, asbestiform, 1681 macrophage potentiation

invasive capacity, ascites hepatoma cells, 2167

Suramin

antiproliferative effects lymphoid cells, 4694

Surgery

spontaneous metastases primary C3H mouse mammary tumors, 547

Survival

DNA flow cytometry DNA content, prostate cancer, 2504 histopathological grading, prostate bi-

opsy specimens, 1973

occupational risks to men bladder cancer, 6763 liver cancer, registry-based analysis, 287

Sympathectomy chemical

C-1300 neuroblastoma growth, catecholamine content, 5620

T

Tamoxifen

calcium channel antagonist properties PC12 neurosecretory cell line, 70

effect on progesterone receptor concentration endocrine therapy, advanced breast

carcinoma, 300

endocrine effects adjuvant chemotherapy, breast cancer, 624

estradiol and

effects on creatine kinase, mammary carcinomas, 1348 estradiol-induced c-myc expression, 6517 keoxifene and

antitumor actions, rat mammary carcinoma model, 4020

long-term adjuvant therapy sex hormone binding, 4517

MCF-7 cells

cell cycle and maturation, 12-O-tetradecanoylphorbol-13-acetate, 1615

reversal of antitumor effects

progesterone, 7,12-dimethylbenzan-thracene-induced mammary carcinoma, 5386

Tannic acid

inhibited PAH-DNA adduct formation epidermis, lung, 767

inhibition

epidermal monooxygenases, 760 transplanted hepatocytes

nucleolar segregation, 1657

Target cells

macrophage-mediated tumor cytotoxicity induction by interferons, 2804 relationship between cell cycle and sus-

ceptibility natural killer lysis, 2767

Taxol

phase I study, 2486

T-cells

CD-8 positive

HLA-D/DR association, colorectal tumor epithelium, 2919

depression of

natural antitumor resistance, age-re-

lated changes, 3410 Hodgkin's cell lectin, 2461

HTLV-I transformation quantitative assay, 2468

immune

"innocent bystander" cytotoxicity, mammary tumor, 1105

immunoregulatory markers

prostatic adenocarcinoma variants,

in vitro differentiation

regression, syngeneic tumors, 1354 leukemia-like disease

clonal integration, Simian T-cell leukemia virus type I, 269

progressive growth, immunogenic tumors, 4759

prevention of metastatic growth perioperative immunoactivation, liver, 2748

radiation leukemia virus-induced leukemic cells

clonal analysis, 6590 recruitment

thymus, phenotype change, 2136 suppressor

melanoma-draining lymph nodes, 1529

TPA-induced differentiation, 3729

suppressor-cytotoxic depletion, monoclonal antibody, 2727

therapeutic properties interleukin 2, metastatic disease, 5725

thymus and role in slow growth, B16 melanoma in

aged mice, 3097 tumor-specific clone

generation of antigen-loss variants, L1210 leukemia, 6494

10T1/2 cells

binding and metabolism retinol and retinoic acid, 5637

Tea consumption risk factor for Wilms' tumor, 2972 Temperature

Adriamycin uptake cytotoxicity, 4038 extremity nonuniformity

use of insulation, whole body hyperthermia, 5880

Teniposide

inhibition of DNA topoisomerase I intracellular effects, camptothecin,

resistance

leukemic cells, atypical multiple drug resistance, 1297

Teratocarcinoma

c-Ki-ras gene amplification malignant behavior, embryonal carcinoma cells, 867 immunotoxins

transferrin receptor, syngeneic peritoneal tumors, 6639

Teratocarcinoma cells

loss of nuclear cyclic AMP-dependent protein kinase

retinoic acid-induced, 5831 response to interferon

induction, MHC class I antigens, 740 stimulation of respiratory burst

peritoneal neutrophils, tumor cell conjugation, 2211

Testicular neoplasms

cyclophosphamide-induced cytotoxicity gonadotropin-releasing hormone analogue, 1093

disseminated nonseminomatous multivariate analysis, prognostic factors, 2714

levels of alkaline phosphatase isozymes human seminoma tissue, 2543

Testosterone

diethylstilbestrol diphosphate intermittent administration, prostatic carcinoma, 5967

glucocorticoid effects

androgen-induced Shionogi carcinoma growth, 6560

response of squamous cell line esophageal carcinoma, 4134

Testosterone propionate

induction of prostatic carcinomas lower urinary tract neoplasms, 5699

2,3,7,8-Tetrachlorodibenzo-p-dioxin Ah receptor in human placenta, 4861 induced liver microsomes α-naphthoflavone, clastogenicity, 3662

2-substituted analogues and quantitative structure-activity relationships, cytosolic receptor, 5108

uptake and specific binding

olfactory mucosa, 4150
12-O-Tetradecanoylphorbol-13-acetate altered keratin biosynthesis epidermis, 4674

calcium and

polypeptides, epidermal differentiation, 2831

cyclic AMP-dependent protein kinases defects, mouse fibroblasts, 953 diacylglycerol derivative and effects on protein kinase activity.

U937 cells, 3344

dietary retinyl palmitate
13-cis-retinoic acid or, skin tumor promotion, 967

diethyldithiocarbamate

inhibition, multistage skin tumor promotion, 6302

distribution of protein kinase C colonic epithelial cells, proliferation, 3434

effect on clonal cultures respiratory epithelial cells, 541

effects on protein kinase (

myeloid leukemia cell line, 6363 epidermal growth factor receptor heterologous regulation, palytoxin, 4618

generation of superoxide

alveolar macrophages, asbestiform, 1681 induced translocation of protein kinase

various cell lines, 2892

induction in transformed cells adenovirus E1A and E1B genes, 803 induction of xanthine dehydrogenase conversion to xanthine oxidase, epidermis, 1775

influence

cell cycle and maturation, MCF-7 cells, 1615

inhibition of induction

ornithine decarboxylase activity in skin, ascorbic acid and ascorbyl palmitate, 6633

inhibition of skin tumor promotion duration of treatment, retinoic acid,

ionizing radiation

initiator, tumor incidence, 6692 lipase activities

modification by phorbol diesters, 135 melanoma-associated antigen expression rapidly dividing human melanocytes, culture, 3057

phenobarbital and

DNA synthesis, hepatocytes, 5665 protein kinase C activators

protein phosphorylation, KG-1 and KG-1a cells, 1302

resistant mutants

non-colony-stimulating growth factor, macrophage cell line, 2777

skin tumor promotion

arachidonic acid metabolism, SEN-CAR and NMRI mice, 3174

suppressor T-cell differentiation, 3729 terminal differentiation-resistant epidermal cells

two-stage carcinogenesis, 1935 transient protection

antitumor agents, cultured human cells, 433

Tetragastrin

enhanced effect by propranolol MNNG-induced gastric carcinogenesis, 111

4'-O-Tetrahydropyranyladriamycin clinical pharmacology

toxicity, 1461 Tetrahydrouridine

5-fluoro-2'-deoxycytidine

tumor-selective activation, mammary adenocarcinoma, 2344

halogenated pyrimidine radiosensitizers potentiation, carcinoma cells, 5361

Tetranitromethane

activation of K-ras protooncogene lung tumors, 3212

Tetrazolium

semiautomatic colorimetric assay assessment, radiosensitivity, 943 evaluation, chemosensitivity, 936

Thermoresistance membrane cholesterol

calcium adenosine triphosphatase, 1255

Thermotolerance

cysteamine-induced oxidative stress Chinese hamster ovary cells, 2268 differences in vivo and in vitro mammary carcinoma cells, 2571 heat shock proteins

other cellular processes, 5249 heat shock sensitization

α-difluoromethylornithine, Chinese hamster ovary cells, 816

induction by heat cycloheximide or puromycin, Chinese hamster ovary cells, 5960

lack of

thermal radiosensitization, bone marrow progenitors, 1538 stress-induced

cytoskeleton, neuroblastoma and hepa-toma cells, 1674

6-Thio-3-deazaguanine

antitumor activity mechanism of action, 1863

Thioguanine

mutation rate normal and malignant lymphocytes, 407

6-Thioguanine

antitumor disulfide cytotoxicity glutathione depletion, murine cells, 4391

continuous exposure L1210 cells, 3083

Thiol proteinase inhibitor

ascitic fluid, sarcoma 180, 5560

Thiols

chemosensitization

L-phenylalanine mustard, buthionine sulfoximine, 1593 treatment of mice with tumors

mesna, combined with cyclophosphamide or Adriamycin, 799

Thrombin

generation

platelet-aggregating activity, NCG neuroblastoma cell line, 2129

Thrombospondin tumor cell metastasis, 4130

Thromboxane

synthesis

prostaglandin, M5076 ovarian reticulosarcoma, 988

Thymidine

2'-deoxyuridine or 2'-deoxycytidine enhanced anti-cancer activity, bis(2chloroethyl)nitrosourea, 394

methotrexate-induced differentiation inhibition, choriocarcinoma cells,

role in biochemical modulation, 3911 salvage

colon adenocarcinoma xenograft, development, 2117

Thymidylate synthase N¹⁰-propargyl-5,8-dideazafolate

synergistic growth inhibition, hepatoma cells, 5256

Thymine

transversion

activated c-Ha-ras oncogene, stomach cancer, 3195

Thymocytes

tumor bearer

antitumor immune reactivity, melphalan, 4848

Thym ma cells

nuclei

absence of protein kinase C, 3868

Thymostimulin

modulation of immune response tumor development and, tumor-bearing mice, 3351

Thymus

T-cell recruitment

phenotype change, tumor-bearing state, 2136

T-cells and

role in slow growth, B16 melanoma in aged mice, 3097

Thyroid

expression

major histocompatibility complex, class I, 4178

follicular epithelium

epithelial cell clones, proliferation potential, 1646

hormone induction

K-ras protooncogene expression, 3-methylcholanthrene, 3052

production of interleukin 1α-like factor hypercalcemia, squamous cell carcinoma, 6474

Thyroid neoplasms

incidence

relation to risk of breast cancer, women, 292

Thyroid-stimulating hormone effects of γ -interferon endocrine system, 6397

Tiazofurin

enhanced metabolism and cytotoxicity analogues of guanine, guanosine and deoxyguanosine, 1022

hematological and biochemical action refractory acute myeloid leukemia, 4988

T lymphoma cells

chemoimmunoseparation bone marrow, 4608 DNA fragmentation 5-fluorouracil-induced, 979

TNF: see Tumor necrosis factor

formation of hemoglobin adducts nitrosamine exposure, 2626

Topoisomerase II

DNA breaks and cytotoxicity cell proliferation, NIH 3T3 fibroblasts and L1210 cells, 2050

DNA cleavage

cell proliferation and chromatin conformation, brain tumor cells, 251 polyamine depletion, leukemia cells,

inhibitors

cell cycle dependence, sister chromatid exchange, 206

cross-sensitivity, hypersensitive CHO cells, 1560

prostatic adenocarcinoma, 3246

targeted drugs

tumor necrosis factor, enhanced cytotoxicity, 2403

deepithelialized

preneoplastic and neoplastic growth, xenografts, 573
Tracheal epithelial cells

7,12-dimethylbenz(a)anthracene cytochalasin B-induced multinucleation, 3446

Tranexamic acid

ascites formation ovarian cancer cells, 592

Transferrin

antibody therapy

murine leukemia, 747 anti-receptor antibody

in vivo growth, solid tumor cells, 2040 growth factor

bladder carcinoma cells, 4560

receptor

immunotoxins, syngeneic peritoneal tumors, 6639

uptake of gallium-67 leukemic cells, 3929

Transformation

chemical and oncogene lack of intercellular communication,

BALB/c 3T3 cells, 5658 diploid human fibroblasts

expression, transfected H-ras oncogene, 5752 increased expression of glucose-related

C3H 10T1/2 cells, 6220

inherent tumorigenic and metastatic properties

Rat-1 and Rat-2 cells, 6384 Transforming growth factor

effects on antiproliferative activity tumor necrosis factor, 780 epidermal growth factor and

divergent effects, endothelial cell line,

heparin binding affinity normal and cancer prostates, 188

mitogenic and antimitogenic tumorigenesis, Ad 2- and SV 40-transformed cells, 4086

purification and characterization, 4552 production

Simian sarcoma virus-transformed cells, 1582

brain tumor-associated, 1190

Transforming growth factor-α expression in colon cancer lines

autocrine model, 4590 relationship to epidermal growth factor α-fetoprotein levels, hepatocellular carcinoma, 896

suppression of tropomyosin synthesis, 4493

synthesis of messenger RNAs epidermal growth factor receptor, human tumors, 707

Transforming growth factor-β epidermal growth factor and

growth and differentiation, epidermal cells, 6705

epidermal growth factor receptor gene expression

breast carcinoma, 4260 expression in colon cancer lines autocrine model, 4590

high affinity receptors

differentiation, embryonal carcinoma cells, 4386

immunodetection and modulation cellular growth with antibodies, 6451 induced mitogenesis in embryo fibro-

blasts N,N-dimethylformamide, retinoic acid,

inhibition of proliferation

hepatocytes, normal/preneoplastic/ neoplastic, 6595

inhibitory effects

colon carcinoma cell line, 2950

platelet-derived growth factor and mesothelial and mesothelioma cells, 6180

synthesis of messenger RNAs epidermal growth factor receptor, human tumors, 707

Transplantation

bone marrow

nutritional support of patients, 3309

bronchial carcinogenesis differential susceptibility, 5202

hepatocytes

nucleolar segregation, 1657 long-term serial

stability, renal cell carcinoma, 221

mammary tumor epidermal growth factor importance,

melanoma growth and metastasis, 4465 progression in hepatocarcinogenesis, 4600

uterine sarcomas and cell lines flow cytometric analysis, 2814

Transplantation antigens

induction of contact hypersensitivity dimethylbenz(a)anthracene, benzo(a)pyrene, 6074

tumor rejection antigen characterization, colon tumors, 3147 S91 malignant melanoma, 5841

Trichostatins

effects on differentiation erythroleukemia cells, 3688

Trifluoperazine phosphorylation

Mr 170,000 to 180,000 glycoprotein, multidrug-resistant tumor cells, 2860

N-Trifluoroacetyladriamycin-14-valerate effect of sodium chloride concentration cell killing, DNA damage in V79 cells, 1853

Trihalomethane

bromodichloromethane neoplasms in rodents, 5189

Trimetrexate

pediatric phase I trial, 4973 pharmacokinetics patients with advanced cancer, 2996

phase I study, 609, 3303 2,3,5-Triphenyltetrazolium chloride 2-cyanocinnamic acid and enhanced hyperthermic cytotoxicity, L929 cells, 3341

Trophoblasts

cell line establishment human placenta, 3220

conditioned medium for in vitro culture antigenic characterization, acute myeloid leukemia clonogenic cells, 6413

Tropomyosin

suppression of synthesis and utilization fibroblasts, transforming growth factor-α, 4493

Trypsin

Bowman-Birk type

cell membrane, possible cell receptor, 1598

insulin and

slow DNA rejoining, UV-irradiated fibroblasts, 4378

Tryptophan

mutagenicity experiments agroclavines, 1811

L-Tryptophan

effect of excess

vitamin B₆ deficiency, urinary bladder cancer promotion, 1244

T suppressor cells

combination immunotherapy synergism, TNF and other systems, 115

Tumor antigens

class 1

melanoma, 6614 monoclonal antibodies

kinetics in humans, 3328 S91 malignant melanoma, 5841

Tumor-associated antigens

antibodies

mammary carcinoma, 2433

breast apocrine metaplasia

monoclonal antibody B72.3, mammary cancer antigen, 902

breast carcinoma

monitor of tumor burden, monoclonal antibodies, 907

carcinoembryonic antigens: see Carcinoembryonic antigens

common acute lymphocytic leukemia specificity, recombinant chimeric monoclonal antibody, 999

epidermal growth factor receptors different human carcinomas, 2531

 G_{D2} and G_{D3}

correlations in melanoma, monoclonal antibodies, 1229

gallbladder carcinoma

monoclonal antibody, 4667

recognition

semisynthetic antisera, L1210 leukemia cells, 1006

tumor-involved lymph node

immortalization, lymphocytes, 5181 Tumor burden

breast carcinoma-associated antigens monitor, monoclonal antibodies, 907 Tumor cells

acquisition of doxorubicin resistance cytogenetic alterations, chromosome 7, 6646

adhesion enhancement role of platelet membrane, extracellular matrix, 6751

Adriamycin resistance

hexose monophosphate shunt, oxidant stress, 5994

agglutination

characterization, Rana catesbeiana lectin, 4877

anticoagulant drugs

augmentation, antimetastatic effect,

antiproliferative effects

α-interferon B/D hybrids, 2020

autologous lysis, mononuclear cell infiltration, 173

BCNU-treated cells

effect of caffeine, cytotoxicity and sister chromatid exchange, 5052

capillary endothelium and specificity of adhesion, 1492

carcinoma cell line

contact insensitivity, fetal kidney epithelial cells, 1634

cell-cell interaction

relationship, fibronectin receptor, 5127

cell surface sialylation

platelet-activating activity, 1767

conjugation with peritoneal neutrophils stimulation, respiratory burst, 2211 development

immune response and, thymic factor thymostimulin, 3351

doxorubicin treatment

nucleolar protein B23 translocation, 3798

effect of verapamil on cytotoxicity Adriamycin, vinblastine, 2295

effect on platelet aggregation pattern of metastasis, 3115

effects of rapenton, 1870 Ehrlich ascites: see Ehrlich ascites tumor

cells formation of blocking lesions

nitrosourea and platinum, identical DNA sequences, 5092 growth of transformed cells

tumor necrosis factor-α, γ-interferon, 5382

histidinol plus fluorouracil therapeutic efficiency, murine breast

tumors, 16 hypoxia

photodynamic treatment, 3110 immunogenic

progressive growth, 4759 induced cytotoxin release

animal lectin, bone marrow cells, 47

diversification, progression to metastatic phenotype, 1473

insulin-producing
D-glucose, respiratory and secretory response, 5905

insulin receptor regulation, 6500 intestinal epithelium

therapeutic selectivity, F-Ara-A, 700 invasive potential

quantitation, rapid assay, 3239

lymphoid ras transfection, invasion and metastasis, 754

metastasis

thrombospondin, 4130 microencapsulated tumor assay effects of anticancer drugs, 5739 migration

role of laminin, 5691

morphologically distinct clones heterogeneity, collagens and fibronectin, 6086

nuclei

1,25-dihydroxyvitamin D₃ detection, breast cancer, 6793

nucleolar antigen

p145 expression, HL-60 cells, 586 oxygen dependence

misonidazole binding, rodent and human tumors, 5367

parameters of growth differential effects, steroid hormones,

2937

platelet-endothelial cell interactions eicosanoid biosynthesis, 2425 regression

doxorubicin-induced host toxicity, impact of insulin, 4318

stimulation of anchorage-independent growth

interleukin 1, 5612

suppression and reversion of tumorigenicity

cellular and molecular mechanisms, NIH workshop, 2514

synthesis of messenger RNAs transforming growth factor- α and - β , epidermal growth factor receptor,

transformation of host cells primary transfection, 5194

transitional cell carcinoma of bladder tumor behavior, chromosome markers, 6800

tumor-draining lymph nodes functional immunocompetence, humans, 1740

viability

xenografted cancer model, whole-body autoradiography, 2177

Walker carcinosarcoma cells chemoluminescence, oxygen radical generation, 4771

xenogenization

gene transfer, 3136 Tumor growth

autocrine regulation, 5330 blood nutrient concentrations onset of acute fast, 1065

C-1300 neuroblastoma catecholamine content, chemical sympathectomy effects, 5629

cytokinetics P-815 mastocytoma cells, 2067

effect of phorbol ester Rous sarcoma virus, 3637

experimental immunotherapy
MoAb against milk fat globules, breast

carcinoma, 532 immunogenic tumors

susceptibility to T-cell-mediated lysis, 4759

macrophage content

murine sarcomas, carcinomas, 1069 modulation by monoclonal antibody epidermal growth factor receptor,

3692 reduction in

rhodamine and hypoglycemia, Walker 256 carcinoma, 3684 simulation of constraints, 4924 stimulation of streptozotocin-induced diabetes, 1756 suppression

disialoganglioside GD2, neuroblastoma cells, 1098

transport of molecules

tumor interstitium, review, 3039 Tumoricidal activity

activation of Kupffer cells γ-interferon, 3880

effect of recombinant tumor necrosis fac-

macrophages, 2793, 5868

Tumorigenesis

dietary linoleic acid

metastasis enhancement, mammary tumor, 6171

DNA adduct formation

7,12-dimethylbenz(a)anthracene, SEN-CAR and BALB/c mice, 4571

human and guinea pig melanoma-associated antigen cross-reactivity, monoclonal anti-

bodies, 4835 mammary tumor metabolism

dietary fat modulation, NMR spectroscopy, 5631

mitogenic and antimitogenic transforming growth factors

Ad 2- and SV 40-transformed cells, 4086

phenotypic modulation epithelial cells, 1282

Rat-1 and Rat-2 cells inherent metastatic properties, 6384 skin

resumption of promotion, regressed papillomas, 1947

total calories and body weight tumor incidence, 1987

transplacental effects

diethylstilbestrol, mammary development, 4508

two-stage

ornithine decarboxylase gene expression, epidermis, 1221

Tumorigenicity

aflatoxin chemoprotection, 5-(2-pyrazinyl)-4methyl-1,2-dithiol-3-thione, 4271

bay region methyl group methylchrysene, epidermis, 5310

B16-BL6 mouse melanoma cells progressively Adriamycin-resistant, 3464

characterization of uroepithelial cells immortalization, Simian virus 40, 6066

cocultures

human pituitary adenomas, C3H 10T1/2 fibroblasts, 5678

cytochalasin B-induced multinucleation tracheal epithelial cells, 3446 diethylnitrosamine

transmission failure, Syrian hamster generations, 5112

fibrosarcoma KMT-17

cultivation, fetal calf serum, 1815 growth in culture

ras oncogene, liver epithelial cells, 4116

induction

N-ras oncogene, human cell line, 3235

colon carcinoma cells, ras overexpression, 3763

malignant subcutaneous sarcoma BK virus early region, c-H-ras oncogene, 6671

suppression

cellular and molecular mechanisms, NIH workshop, 2514

xenogenization of tumor cells gene transfer, 3136

xenografts

preneoplastic and neoplastic growth, deepithelialized tracheas, 573

Tumor-killing factor cellular receptors

analysis, 42 **Tumor models**

bladder carcinoma

invasion and metastases, 6660 colon adenomas and carcinomas

cell culture, 2704

comparison of Solt-Farber and Reddy coordinate polypeptide expression, hepatocarcinogenesis, 2839

epithelial ovarian cancer intraperitoneal xenografts, 2662

establishment of human B-cell tumor athymic mice, 2899 growth

autocrine regulation, 5330

ovarian cancer

ascites, effect of tranexamic acid, 592 severe combined immunodeficiency lung tumor growth, 2456

solid

doxorubicin-containing liposomes, lipid composition and antitumor activity, 3366

solid and ascitic

human malignant mesothelioma cell line, 3199

tumor cell-platelet-endothelial cell interactions eicosanoid biosynthesis, 2425

xenografts

suppression of growth, 1,25-dihydroxyvitamin D₃, 21

Tumor necrosis factor antiproliferative activity effects of growth factors, 780

clonal proliferation lung cancer, 4081

compared with monocyte-derived cytotoxic factor

monocyte-mediated cytotoxicity, 2251 effect on tumoricidal activation

macrophages, 5868 human progenitor cell effect chronic myeloid leukemia, 4788

indirect mode of antitumor activity, 3707 induced alterations of phospholipid me-

tabolites nuclear magnetic resonance, Friend leukemia cells, 6481

induced similar activity

Nocardia rubra cell wall skeleton,

induction

differentiation, myeloid cell lines, 2236

macrophage tumoricidal activity, 2793 γ-interferon and growth of transformed cells, 5382

synergistic antitumor effects, colonic neoplasms, 2809

therapeutic potential, ovarian cancer, 4755

therapeutic properties, 2563 interleukin 2 and

combination therapy, 3948 muteins and

biological effects, tumor and normal

cell lines, 145 phase I study, 2986

synergism with other defense systems combination immunotherapy, cancer in mouse model, 115

topoisomerase-targeted drugs, 2403

Tumor progression mechanisms of

metastatic variants, 2'-deoxy-5-azacytidine treatment, 2690

reduced DNA methylation levels 5-methylcytosine, melanoma cells, 2264

Tumor promoters

diethyldithiocarbamate

inhibition, multistage skin tumor promotion, 6302

effects of cigarette smoke condensate bronchial epithelial cells, 2045

epidermal growth factor receptor heterologous regulation, palytoxin, 4618

epidermal xanthine oxidase activity degree of hyperplasia, 6388

ornithine decarboxylase

systemic inhibition, 1α,25-hydroxyvitamin D₃, 5031

phorbol ester

bryostatin 1 blockade, primary epidermal cells, 5445

retinoids

dietary or topical exposure, skin tumor induction, 5989

skin tumor promotion chrysarobin, 3783

transferrin as growth factor bladder carcinoma cells, 4560

adaptation

growth in culture, delayed sarcomas,

Dunning

prostatic growth factor, heparin binding affinity, 188

heterogeneous growth properties, 1045

human surgical specimens radiation sensitivity in vitro, 106

hypotetraploid

stages of neuroblastoma, different karyotypic patterns, 311

in vitro growth

epidermal growth factor, biological effect, 403

MOPC-315

antitumor immune reactivity, tumor bearer thymocytes, 4848

nonepithelial

proteoglycans, isolation and characterization, 160

radiosensitivity increase in pO2, fluosol-DA and carbogen, 442

anti-transferrin receptor

antibodies, 2040

antitumor activity, bacterial proteases,

aplysianin E, antitumor factor, 5649 blood-to-tissue transport, xenotransplanted medulloblastomas, 1687

busulfan, autologous bone marrow, 6402

combined immunochemotherapy, nude mice, 579

ifosfamide, cis-diamminedichloroplatinum(II), 1457

phase I study, hexamethylene bisacetamide, 617 phase I study, trimetrexate, 609, 3303

porfiromycin, hypoxic EMT6 cells, 5654

pyrazoloacridines, 4299 suppressed growth, 1,25-dihydroxyvi-

tamin D₃, 21 syngeneic regression, T-cell differentiation, 1354

Tumor-specific antigens shared

chemically induced BALB/c sarcomas, 5074

Tumor tissue

interstitial transport

fluid and solute molecules, review, 3039

Tyrosine aminotransferase

gene expression liver, 5415 Tyrosine kinase

modification of tumor histology point mutations, v-fps oncogene, 6341

U

U937 cells

induction of differentiation tumor necrosis factor, 1a,25-dihydroxyvitamin D₃, 2236

protein kinase activity

effects of phorbol ester, diacylglycerol derivative, 3344

Ulex europeus

agglutinin I-reactive glycoprotein adenocarcinoma, distal colon and rectum, 881

Ultraviolet A

8-methoxypsoralen-DNA photoadducts immunological detection, visualization, 2451

Ultraviolet irradiation

asynchronous DNA replication polyoma, 4565

sunlight on epidermal keratinocytes cytotoxicity, 1825

Urachal neoplasms

cell line establishment chemosensitivity, 4941

Uracil

DNA glycosylase

human base excision repair enzyme, biosynthesis, 123

induced calculi

N-butyl-N-(4-hydroxybutyl)nitrosamine, urinary bladder carcinogenesis, 6726

Uremia

2-amino-6-methyldipyrido[1,2-a:3',2'-d]imidazole

2-aminodipyrido[1,2-a:3',2'-d]imidazole and, plasma accumulation,

6150

Uridine

concentrative transport splenocytes, 2614

5-fluorouracil-induced DNA fragmentation

T-lymphoma cells, 979

Uridine 5'-diphosphate-glucuronosyltransferase

aromatic amine N-glucuronidation hepatic microsomal preparations, 2028

Uridine triphosphate phosphorylation

1-β-D-arabinofuranosylcytosine, Ehrlich ascites tumor cells, 1820

Urinary bladder

cancer promotion

effect of L-tryptophan excess, vitamin B₆ deficiency, 1244

carcinogenesis

N-butyl-N-(4-hydroxybutyl)nitrosamine-induced, inhibition by α-difluoromethylornithine, 6176

sodium L-ascorbate, strain and diet differences, 3492 uracil-induced calculi, N-butyl-N-(4hydroxybutyl)nitrosamine, 6726

promotion of carcinogenesis L-ascorbic acid, potassium ion concentration and pH, 4821

Urinary tract infection

induced carcinogenesis, enhancement, 559

Urinary tract neoplasms

endemic nephropathy in the Balkans, 3608

aflatoxin exposure

hepatitis B virus, liver cancer, 3430

clinical pharmacokinetics 5-fluorouracil, 2203

clinical significance of neopterin ovarian cancer, 4977

excretion of aflatoxin M1 correlation, dietary aflatoxin B1, 1848 excretion of decarboxylated-S-adenosyl-

methionine biochemical marker, ornithine decar-

boxylase, 890 invasive mole and choriocarcinoma

asparagine-linked sugar chains, chorionic gonadotropins, 5242 mutagenic metabolites

MeIOx, cooked meat, 791 transferrin as growth factor bladder carcinoma cells, 4560

Uroepithelial cells immortalization

characterization, Simian virus 40, 6066

Urogenital sinus

normal fetal

responses to conditioned medium, bladder carcinoma cells, 2955

plasminogen activator gene expression lung and breast carcinomas, 4043

Urothelial neoplasms

induction

N-hydroxy-2-aminofluorene, N-glucuronosyl or N-acetyl derivatives, 3406 Urothelium

normal and malignant

effects of epidermal growth factor, 2230

normal and neoplastic

epidermal growth factor, serum-free medium, 2107

Uterine cervical neoplasms intraarterial administration

cis-diamminedichloroplatinum, 6134

Uterine cervix carcinoma

molecular alterations, c-myc oncogene, 4173

new cell lines

squamous carcinomas, 4947 Uterine cervix lesions

placental form

immunohistochemical detection, glutathione S-transferase, 6806

Uterus

estrogen receptors effects of polyamines, 1799 sarcomas and cell lines

flow cytometric analysis, 2814

Vaginal infection

risk factor for Wilms' tumor, 2972

Vasoactive intestinal peptide

enhancement

colonic carcinogenesis, azoxymethane, 4890

V79 cells

3-aminobenzamide toxicity 5-hydroxymethyluracil in DNA, 4372 cell cycle dependence

sister chromatid exchange, topoiso-merase II inhibitors, 206

Chinese hamster

DNA-protein cross-links, radiation, 2032

effect of sodium chloride concentration Adriamycin, cell killing, 1853

Verapamil effect

distribution of anthracyclines, reversal of drug resistance, 1421

effect on Adriamycin and vinblastine cytotoxicity

human tumor cells, 2295 enhanced antitumor effect

cis-diamminedichloroplatinum(II), nude mouse-grown human neuroblastoma, 231

phosphorylation

Mr 170,000 to 180,000 glycoprotein, multidrug- resistant tumor cells,

TPA transient protection antitumor agents, cultured human

cells, 433 Vimentin

Ewing sarcoma

intermediate filaments, characterization, 1170

Vinblastine

effect of verapamil on cytotoxicity human tumor cells, 2295

photoactive analogue identification of Vinca alkaloid acceptors, P388 leukemia cells, 5149

Vinca alkaloids clinical pharmacokinetics navelbine, 5796

identification of acceptors P388 leukemia cells, photoactive analogue of vinblastine, 5149

Vincristine

effect of bisbenzlyisoquinoline alkaloids multidrug resistance, KB human cancer cells, 2413

inhibitors of mitosis

comparison, 1,2-dihydropyrido[3,4-b]pyrazines, 1621 mitoxantrone and prednisone

acute lymphocytic leukemia, chronic myelocytic leukemia, 5234

primary resistance to L-phenylalanine mustard and

reciprocal cross-resistance, rhabdomyosarcoma, 6288

induction of enzymes

phorbol esters, n-butyrate, 4407 recombinant

production, oncogene isolation method, 5908

Vitamin A

chemoprevention

rationale and strategies, cancer in humans, 3012

deficiency

reversible squamous cell characteristics, small cell lung cancer cell line, 3533

prostate cancer in elderly men enhanced risk, 2982

Vitamin B

deficiency

effect of L-tryptophan excess, urinary bladder cancer promotion, 1244

Vitamin E

chemoprevention rationale and strategies, cancer in humans, 3012

selenium and glutathione

combined treatments, skin carcinogen-

esis, 477 VM-26: see Teniposide

VP-16: see Etoposide VX-2 tumor

> selective anticancer effects 3',5'-dioctanoyl-5-fluoro-2'-deoxyuridine, 1930

Walker 256 carcinoma reduction of growth rate

rhodamine, hypoglycemia, 3684

Walker carcinosarcoma 256/B hypercalcemia and hypercalciuria bisphosphonates, effect of single injection, 6193

Walker carcinosarcoma cells

chemiluminescence oxygen radical generation, chemotactic stimulation, 4771

Wheat germ agglutinin

metastatic potential

fucosylglycoprotein, adenocarcinoma of colon and rectum, 881

Whey acidic protein

differentiation-specific proteins preneoplastic mammary tissues, 4686

Wilms' tumo gestational risk factors, 2972

Xanthine dehydrogenase

WR-2721: see Ethiofos

TPA-induced

conversion to xanthine oxidase, epi-

dermis, 1775 Xanthine oxidase

degree of hyperplasia tumor promoters, 6388

loss of fluorescence anthracycline antibiotics, 1036

Xenobiotics

daunorubicin cytotoxicity

analysis of enzyme role, somatic cell hybrids, 1924

β-glucuronidase

mammary tumors, ovariectomy-induced regression, 3980

impaired glutathione biosynthesis human ataxia-telangiectasia cells,

3-methylcholanthrene and phenobarbital effects, pulmonary cytochrome P-450,

O'-methylguanine-DNA methyltransfer-

human fetal tissues, fetal and maternal factors, 51

transplanted hepatocytes nucleolar segregation, 1657

Xenogenization tumor cells

gene transfer, 3136 Xenografts

antitumor activity

Vinca immunoconjugates, monoclonal antibody PF1/D, 3118

childhood rhabdomyosarcoma cell lines, 4501

colon adenocarcinoma

thymidine salvage, 2117

monoclonal antibody, epidermal growth factor receptor, 3847

glioma-associated antigen regional localization, 4432

growth inhibition α-interferon, osteosarcomas, 258

GW-39 human colonic tumor

radioimmunotherapy, MoAb to carcinoembryonic antigen, 5672

human breast cancer

blood flow, oxygen consumption, 3496

human ependymoma HxBr5

development, characterization, 499 human lung cancer

radiolocalization, monoclonal antibody, 5427 human melanoma

evaluation of antitumor activity, recombinant human y-interferon, 5347

metastatic potential, 2305 inhibition of growth

ricin toxin A chain-MoAb conjugates.

intracranial glioma

monoclonal antibody delivery, 1941

intraperitoneal epithelial ovarian cancer, 2662

peuroblastoma DNA amplification, 3291

ovarian cancer

localization, monoclonal antibody, 4714

preneoplastic and neoplastic growth deepithelialized tracheas, rat, 573

radioantibody localization cell viability, whole-body autoradiogra-phy, 2177

solid tumor

suppression of growth, 1,25-dihy-droxyvitamin D₃, 21

transformation of host cells

primary transfection, tumor cells, 5194

Xeroderma pigmentosum DNA excision repair two pathways, 3725

Group C cells choice of repair sites, polymerase α activities, 2393

Xeroderma pigmentosum cells complementation of ultraviolet repair denV gene, bacteriophage T4, 2967

X-ray

sensitivity skin fibroblasts, Li-Fraumeni familial cancer syndrome, 4229 thermal radiosensitization

bone marrow progenitors, 1538

YAC-1 cells

potentiation of cytotoxicity 1-β-D-arabinofuranosylcytosine, cadeguomycin, 713

Yttrium-90

hepatic arterial

microsphere administration, bromodeoxyuridine infusion, 3285

calcium and magnesium benign nodular hyperplasia, prostate,